

IN THE SPECIFICATION:

Please amend paragraph [00055] as follows:

-- The present invention provides purified and isolated polynucleotides (*e.g.*, DNA sequences and RNA transcripts, both sense and complementary antisense strands, both single- and double-stranded, including splice variants thereof) that encode unknown G protein-coupled receptors heretofore termed novel GPCRs, or nGPCRs. These genes are described herein and designated herein collectively as nGPCR-x (where x is 86-93, 2588, 2589, 2591, 2592, 2593, 2594, 2595, 2596, 2598, 2600, 2601, 2602, 2603, 2604, 2606, 2607, 2608, 2609, 2610, 2611, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2621, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2639, 2640, 2641, 2642, 2643, 2644, and 2645). Table 1 below identifies the novel gene sequence nGPCR-x designation, the SEQ ID NO: of the gene sequence, the SEQ ID NO: of the polypeptide encoded thereby, and the US Provisional Application in which the gene sequence has been disclosed.

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Table 1

nGPCR	Nucleotide Sequence (SEQ ID NO:)	Amino acid Sequence (SEQ ID NO:)	Originally filed in:	nGPCR	Nucleotide Sequence (SEQ ID NO:)	Amino acid Sequence (SEQ ID NO:)	Originally filed in:
86	1	59	A	2613	30	88	D
87	2	60	A	2614	31	89	D
88	3	61	A	2615	32	90	D
89	4	62	A	2616	33	91	D
90	5	63	A	2617	34	92	D
91	6	64	A	2618	35	93	D
92	7	65	A	2619	36	94	D
93	8	66	A	2621	37	95	D
93	9	67	G	2624	38	96	D
2588	10	68	B	2625	39	97	D

2589	11	69	B		2626	40	98	E
2591	12	70	B		2627	41	99	E
2592	13	71	B		2628	42	100	E
2593	14	72	B		2629	43	101	E
2594	15	73	B		2630	44	102	E
2595	16	74	B		2631	45	103	E
2596	17	75	B		2632	46	104	E
2598	18	76	B		2633	47	105	E
2600	19	77	B		2634	48	106	E
2601	20	78	C		2635	49	107	E
2602	21	79	C		2636	50	108	F
2603	22	80	C		2637	51	109	F
2604	23	81	C		2639	52	110	F
2606	24	82	C		2640	53	111	F
2607	25	83	C		2641	54	112	F
2608	26	84	C		2642	55	113	F
2609	27	85	C		2643	56	114	F
2610	28	86	C		2644	57	115	F
2611	29	87	C		2645	58	116	F

Legend

A= Ser. No. 60/195,150
C= Ser. No. 60/195,151
E= Ser. No. 60/195,093
G= Ser. No. 60/230,149

B= Ser. No. 60/195,099
D= Ser. No. 60/195,148
F= Ser. No. 60/195,098

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Please amend paragraph [000118] as follows:

-- Variant polypeptides include those wherein conservative substitutions have been introduced by modification of polynucleotides encoding polypeptides of the invention. Amino acids can be classified according to physical properties and contribution to secondary and tertiary protein structure. A conservative substitution is recognized in the art as a substitution of one amino acid for another amino acid that has similar properties.

Exemplary conservative substitutions are set out in Table 2 (from WO 97/09433, page 10, published March 13, 1997 (PCT/GB96/02197, filed 9/6/96), immediately below.

Table 2
Conservative Substitutions I

SIDE CHAIN	
<u>CHARACTERISTIC</u>	<u>AMINO ACID</u>
Aliphatic	
Non-polar	G A P I L V
Polar - uncharged	C S T M N Q
Polar - charged	D E K R
Aromatic	H F W Y
Other	N Q D E

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Please amend paragraph [00119] as follows:

-- Alternatively, conservative amino acids can be grouped as described in Lehninger, [Biochemistry, Second Edition; Worth Publishers, Inc. NY, NY (1975), pp.71-77] as set out in Table 3, below.

Table 3
Conservative Substitutions II

SIDE CHAIN	
<u>CHARACTERISTIC</u>	<u>AMINO ACID</u>

Non-polar (hydrophobic)

- | | |
|-----------------------|-----------|
| A. Aliphatic: | A L I V P |
| B. Aromatic: | F W |
| C. Sulfur-containing: | M |
| D. Borderline: | G |

Uncharged-polar

- | | |
|----------------|-------|
| A. Hydroxyl: | S T Y |
| B. Amides: | N Q |
| C. Sulfhydryl: | C |
| D. Borderline: | G |

Positively Charged (Basic): K R H

Negatively Charged (Acidic): D E

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Please amend paragraph [00120] as follows:

--As still another alternative, exemplary conservative substitutions are set out in Table 4, below.

Table 4
Conservative Substitutions III

Original Residue	Exemplary Substitution
Ala (A)	Val, Leu, Ile
Arg (R)	Lys, Gln, Asn
Asn (N)	Gln, His, Lys, Arg

Asp (D)	Glu
Cys (C)	Ser
Gln (Q)	Asn
Glu (E)	Asp
His (H)	Asn, Gln, Lys, Arg
Ile (I)	Leu, Val, Met, Ala, Phe,
Leu (L)	Ile, Val, Met, Ala, Phe
Lys (K)	Arg, Gln, Asn
Met (M)	Leu, Phe, Ile
Phe (F)	Leu, Val, Ile, Ala
Pro (P)	Gly
Ser (S)	Thr
Thr (T)	Ser
Trp (W)	Tyr

Tyr (Y)

Trp, Phe, Thr, Ser

Val (V)

Ile, Leu, Met, Phe, Ala

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Please amend paragraph [00238] as follows:

-- The following Table 5 contains the sequences of the polynucleotides and polypeptides of the invention. The transmembrane domains within the polypeptide sequence are identified by underlining.

Table 5

The following DNA sequence Seq-86 <SEQ ID NO. 1> was identified in *H. sapiens*:

ACACAGTGTGCACACACGTGCAGGGACATACCCCCTTCCCCAACTGCCTGGC
 CTGCACACTTGGCATTTCAGTATTTCTAGGAAGTGATGGCTCTGTGCATCCT
 GAGCCAATCCAGCTCCGAGCCTCCAAGGCATCCTGGTGATGGGCAGCTGGAA
 GCTCTGCCTCTGAGGCCTTCACACACCCACCTTCGGTCAAACCTTGCTTCTGCT
 GAGGAACTTGGTGTGTCTTCCTTCTGGGCAGGAGGTCACATTTGAGAGCACA
 GGAGCAGTGCCTGCCCCCGGGAATGTGGCTCTGGGTAGAATTGCAGGCTCA
 GGGGTTTTGGGCAGGAGAGCACCAACCGTGCCACACCCACACAGACACGGTC
 ACTGGGGCCCTGCAGCAGGGACGACCGCACTTCCCAAAGGGCTGGGAAGCC
 ATGTCCAGAGGAGGCCATGCTCTAGCTCCCTTGGGCAGGGCTGGCTGCAAGG
 AGGGTGAAGTTGGGCATCTTGAACCCAGAGAAGTAGAGGACTCAGCACCAG
 CACAACCAGCTCGGCGCATTAAATACACATTCTCTCCCACTTCTCCCCAAGCC
 TGAAAAAACCTCAAACCAGCCTCTTTGCAGCTCCCTGAGGTCATGACTCACG
 AACCATGCTCGGGGCAGGGGAAAAGAAAAGCATCCG

The following amino acid sequence <SEQ ID NO. 59> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 1:

DAFLFPCPEHGSVMTSGSCKEAGLRFFQAWGEVGEECVLMRRAGCAGAESSTSL
GSRCP TSPSLQPALPKGARAWPPLDMASQPF GKCGRPCCRAPVTVSVVWWHGW
CSPAQN PACNSTQSHIPGGQALLCSQMPPAQKEDTPSSSAEASLTEGGCVKASE
AELPAAHHQDALEARSWIGSGCTEPSLPRNTGNAKCAGQAVGEGGMSLHVCAH
C

The following DNA sequence Seq-87 SEQ ID NO. 2> was identified in *H. sapiens*:

CTAAAGGAGGAATAGATGTCTTTAAGAAGAAATGAAAAAATAAAGTAAATG
TGAAAATTTCCCTTACTTATTTCCAAACAAGTGCTCCTCCAAAAAATGCAAA
TAATTAAGTTTCTGAAATGGTGAACATATCAGATTAGTAGACATATGGCAGG
AGCAGCAAATGAGCAGATCAAGTTGAAGTCCTAGTATTACCAATCTGTTAAT
GTTGACAGGAAGACTCATTTTGACTGTTCTTTTATATCAATAAATGAGTGGA
TTTCAACTACTCTAAATAGGAATGCTAAAAGCAGCACTGCTAAAAGTGCATA
TCAAACCAATAATTTTCTGATGCTGTTTTGGTATATCCTACAAACATTTGTAG
GACAACAACCTCAGAAGGGAAAAAATATCTTATGCCTTTGAGGTCTGTACTG
AATGCTAATGCATTTGTATATGATGGGTTTAATACAGAACTGAGAATAAATT
ACTTTCAGCAGCTGCACTCTAGACCTATAAATCGCTCTGAGTACTACAAAATC
CATACAAAGGAAGAACAGCTGGATAATTTACACCACCAGTATTTGTCAAAAA
AAAAAAAAAAAAAGCTGAAAATACAGAACCTGATTTTGTCCCTTTTTCGAGTA

The following amino acid sequence <SEQ ID NO. 60> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO. 2:

LEKGTKSGSVFSAFFFFFQILVVIIQLFFLCMDFVVLRAIYRSRVQLLKVIYSQFCIK
PIIYKCISIQYRPQRHKIFFSLLSCCPTNVCRIYQNSIRKLLVYALLAVLLLAFLFRV
VEIHSFIDIKGTVKMSLPVNINRLVILGLQLDLLICCSCHMSTNLICSPFQKLNYLH
FFGGALVWKVREIFTFTLFFHFFLKTSIPPL

The following DNA sequence Seq-88 <SEQ ID NO. 3> was identified in *H. sapiens*:

AGGGGCCCTCCAGCACTGGTCTTGAAGGGGTGACAGGGTCTGGGGTCTGACT
CCCACCTCCACCACTTCCCACCTGAGGGCCCTGGAATGAATCCTTTCCTGGAT
CTGAGCTGCCACATCATCAGTGAAAATGACACCTATATGGGACTTCAGTGAG
AACACAAATGCAACGTTCTGCCACGGAACAACCCATGTACTCACTGGGAGC
ATTGAGAGTAGATCCACACTGATTGACACAGGGACTCCAGGCCTGACCCATG
ATATGTACTGGATACATGGCCATGAGTGCTCCACAG

The following amino acid sequence <SEQ ID NO. 61> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO.3:

VEHSWPCIQYISWVRPGVPVSVISVDLLSMLPVSTWVVPWQERCICVLTEVPYRCH
FHCSSDPGKDSFQGPQVGS GGGGSQTPDPVTPSRPVLEGP

The following DNA sequence Seq-89 <SEQ ID NO. 4> was identified in *H. sapiens*:

ACACCAAATACTGCTTTGCTGCCTTAGGCTTCAGCACATTAGCATGGCTTCCT
CCCTTGGCATGGTAACTGTAGCTGAACTTGGAGGGTTTGTATTACCCATTATA
ATTATTACTTATTTACATGGAAAACAAGAAAATCTTTATGGGAATTCCAAGT
TCCCCCTAGGAATACCAAAGAGAGGAAAAAGGCTTTGAGGATGGTCCTGATG
TGTGAAGTGGTGTTTCATTGTGTGTTTCACTCCTTACCACCTCAACTTCCCATTC
TTTATGATGGTGAAGGAACATGTCTTTTTGAACTGCTCTTTTATAAAGATCAT
TCTCTGTTTCCACATTATTTCCCTGTGTCTTGCAAATCTGAATTGTTGTCTTGA
TCCAGTTGTATATTATTTTATGACCTCAAAATTTTCATGATCAATTTTCAGATCA
TGGCAGCTTGGTTCTTCAGTCATGTATGAGATGTAATAACAGTACCTTAGAAA
TTCATCAGAGGAAGGGAGGATCTTCAAACATCTCTCTTGAATGTTTGAAAG
ATTCCAAGACAATATAATCAAATAATTAAC TAGAAAAATCGATATGCTCTAT
TAGTGTATCTATGTCACCTTGAAGATTTTTCTTTTTTTTTTTCTTTTTTTTTATT

ATACTTTAAG

The following amino acid sequence <SEQ ID NO. 62> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 4:

HQILLCCLRLQHISMASSLGMVTVAELGGFVLPIIIITYFTWKTRKSLWEFQVPPR
NTKERKKALRMVLMCEVVFIVCFTPYHLNFPFFMMVKEHVFLNCSFIKIILCFHII
SLCLANLNCCLDPVVYYFMTSKFHDQFSDHGSLVLQSCMRCNNSTLEIHQRKGG
SSNYLSMFERFQDNIKLTRKIDMLYCIYVTLKIFLFFFSFLLYFK

The following DNA sequence Seq-90 <SEQ ID NO. 5> was identified in *H. sapiens*:

AATGCTACTGCTCCTGCATATAATAGCTGCTTTGAAGTGTTTGTCTGCTATGT
CCAAAACATAGACTCTTTCAAAGCACTTTCTGTTGTCTCCTTTTTCTCTTGCA
TAGGAGTCACATTTTTCTGTCTCTTCACATATTTTCATATTTATTTTTGTTGAAA
ACCAGACATTTTAGATAATGTGTTGTAGCAGTCCAGATACTGATTCTCTCCCC
CAGGAGCTGTTGTCTTTCTTACTTGTATATGTGTTTAGTGACTTGGCTGGACTA
TTTAAATAATGTGTATTTCCCTGTAGTATATAACCATCTTTTATACTAATGTTAC
TTTTCCGATAGTGCAGCCTTGGGCATGGACAGAGTTATCCTGGGATGACAGT
AACTTTTAATAGGGCTCTCTATGACTATCTCTTTCCCTGATGTCCCTGTAAAGC
TATCTGCATCTCTTGGTATCACACCTAGCCTTTGACTTCCACTAATTGTTTGAT
CATTGCCTCACTGTTTTTGGCAGTGCCCTAAGGCATAAAGTGTTCCACAGTCT
GATATAATTAATTAGATTCTTACAAGAGTGGTCTTTGAGGCCAGTCCTTGA
GGTTTGTGCTGACTCTGGGAGGGCTCAAATGTTTCCCT

The following amino acid sequence <SEQ ID NO. 63> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 5:

CYCSCILLSVCLLCPKHRLFQKHFLSPFSLAESHFSVSSHISYLFLLKTRHFRCVV

AVQILILSPRSCCLSYLYMCLVTWLDYFNNVYFPVVYTIFYTNVTFPIVQPWAWT
ELSWDDSNFGSLLSLSLMSLLSYLHLLVSHLAFDFHLFDHCLTVFGSALRHKVFH
SLILNSDSYKSGLGQSLRFVLTLGGLKCFP

The following DNA sequence Seq-91 <SEQ ID NO. 6> was identified in *H. sapiens*:

CCTCACATCCCCTTCCCCTCAAACCCTGGCAACCCCAAACCTGTTCTTGACAGC
CTCCTTTGGCATTTCCTCATTTTGGTGTGAGATCTCACAGCAGAATTTCTTACC
TATTATATAACAGTGCCTCAGTGTGAAGTTCCGGTTTAACTTCTTGTTACCAC
GAGCCCACTATCTTGCCCCAATAATACCCTCCCCCAATTCACAAACACACAA
GCATTCCCTCCTACAGCTTTGGGCCTCCTATCTGAGTCCTTCAGGAAAGAAGT
GCTGTGTAACCTCCCTTGGCAGTGAGTGTAGACTTGGTCCAAGGAAGATGAGC
ACCAGTCAGGGCAGCTGGGCCCTCTTCTCTCCCTGGCCATCAGCAAATCAGC
ACTGCCCATCGATGCCCAGGCAATGGGAGCG

The following amino acid sequence <SEQ ID NO. 64> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO. 6:

PHIPFPSNPGNPKLFLTASFGISSFWCQISQQNFLPIYQCLSVKFRFNLLPRAHYL
APIIPSPNSQTHKHSLLQLWASYLSPSGKKCCVTPLAVSVDLVQGRAPVRAAGPS
SLPGHQQISTAHRCPGNGS

The following DNA sequence Seq-92 <SEQ ID NO. 7> was identified in *H. sapiens*:

ATTACTATTTTTCAACCTCTTTTACTCCAGGGACTTCTATGCACCCTCTCCCTC
AACTCCCCCTCAATTTGTTCTCATAATCCCCATGACCCCCAGTTTTATAACAC
CACTGTCAGGAGCCCAAAGCTGCCATTCACTTCCATTAGCATGACTCTT
CATGTACTTTGGGGTCTTCAGTCTCTCCCCTTCTCCTAATTTCCAGGGTTCCAT
TCTGCTTCTGCTGGCTTCCCTACAAAGCCTGCAACATCATAAGCCATTTTCAGG

AAAGAGCTTGATCATCTTTTGATGAACCCTGCATTCATGACTCACTGCCTTAC
CTGTCTTTGGCTCTGCATGTCCCCCAGTTTCCGTTTCTTTCTCTGGAAAGAGAG
ATTGCCCAAGAGTCCTGCACATCAGCATTACTAGAAATGCATGCAGACCAGC
TTCAGCTGCTTGCCAACTCTTTAAAAAATGAGTAAACAATTTTCTAAAGGGGA
AAAAATCTCTTCACCTCCTCACACCAACTATTTGCATAATTCAGTGACCTTTT
ATAAACCGTGCCATTGTATAAGCA

The following amino acid sequence <SEQ ID NO. 65> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 7:

ITIFQPLLLQGLLCTLSLNSPSICSHNPHDPQFYNTTVRSPKLPFIHFHITIFQPLLLQ
GLLCTLSLNSHDSSCTLGSSVSPLLLISRVPFCFCWLPYKACNIISHFRKELDHLLM
NPAFMTHCLTCLWLCMSPSFRFFLWKERLPKSPAHQHYKCMQTSFSCLPTLKMS
KQFSKGEKISSPHTNYLHNSVTFYKPCHCIS

The following DNA sequence Seq-93 <SEQ ID NO. 8> was identified in *H. sapiens*:

CACCGTCCTCATCATGATCGTCTTCGTCATCTGCTGCTGGGGGCCCTACTGCT
TCCTGGTGCTGCTGGCCGCCGCCCGGCAGGCCAGACCATGCAGGCCCCCTC
GCTCCTCAGCGTGGTGGCCGTCTGGCTGACCTGGGCCAATGGGGCCATCAAC
CCTGTCATCTACGCCATCCGCAATCCCAACATTTTCGATGCTCCTAGGGCGCAA
CCGCGAGGAGGGCTACCGGACTAGGAATGTGGACGCTTTCCTGCCAGCCAG
GGCCCGGGTCTGCAAGCCAGAAGCCGCAGTCGCCTTCGAAACCGCTATGCCA
ACCGGCTGGGGGCCTGCAACAGGATGTCCTCTTCCAACCCGGCCAGCGGAGT
GGCAGGGGACGTGGCCATGTGGGCCCGCAAAAATCCAGTTGTACTTTTCTGC
CGAGAGGGACCACCAGAGCCGGTGACGGCAGTGACCAAACAGCCTAAATCC
GAAGCTGGGGATACCAGCCTCTAAGACGGTTGGAATGGCCAGCTTATGAAGG
CAAATTTCCACTCGCATTATTTAATGATGGAAGATTCTGGGGGAGAGTTGTGG
ATTCATAAAGCCAAACATTTAAAGCTAGAGACGGGGGAGGCTTACCACTTT

CCCCAAACAACATAAAAGACAATGTCCCTTCTTTCAAAAAGTGC

The following amino acid sequence <SEQ ID NO. 66> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 8:

TVLIMIVFVICCWGPYCFLVLLAAARQAQTMQAPSLLSVVAVWLTWANGAINPV
IYAIRNPNISMILLGRNREEGYRTRNVDAFLPSQGPGLQARSRLRNRYANRLGA
CNRMSSSNPASGVAGDVAMWARKNPVVLFCREGPPEPVTAVTKQPKSEAGDTS
LDGWNGQLMKANFHSHYLMMEDSGGELWISSQTFKARDGGGLPLSPNNIKDNV
PSFKKC

The following DNA sequence nGPCR-93 <SEQ ID NO. 9> was identified in *H. sapiens*:

CGCTCCTGCGTAAACACGCGGTTCCCTCGGCAACGCTGGAACCCACGTCAAA
GGCTCCGCCAGGTCCCCAGCGACCGCCACCCCTCCGGCCGAGCCCAGCTCCC
CGCGGCGGCCGCTAGCCCCCGGCCCGAGCCACCACTCCGACCTAGCGGCCG
CCGCCCCCGGTGCGGGATGAGGAGATCCGCGGCCGCCACTGGGCCCCATGGA
GGAGCCGCAGCCGCCCGCCACAGCGAGCATGGCCTTACTGGGCAGCCA
GCACTCCGGCGCCCCCTCCGCGGCCGGCCACCTGGCGGGACTTCCTCCGCG
GCCACGGCGGCCGTGCTCTCCTTCAGCACCGTGGCGACCGCGGCGCTGGGGA
ACCTGAGCGACGCAAGCGGAGGCGGCACAGCTGCCGCTCCCGGTGGCGGCG
GCCTTGGCGGGTCCGGGGCAGCGCGGGAGGCGGGGGCGGCGGTGAGGCGGC
CGCTAGCGACGGAGGCGGCGCCGCTGCTGTGCGACGGAGCTGCAGTGGCGGC
CCAGGCGCTCGTCCTCCTGCTCATCTTCCTGCTGTCTAGCCTTGGCAACTGCG
CGGTGATGGGGGTGATTGTGAAGCACCGGCAGCTCCGCACCGTCACCAACGC
CTTCATCCTGTCGCTGTCCCTATCGGATCTGCTCACGGCGCTGCTCTGCCTGC
CCGCCGCCTTCCTGGACCTTTCACTCCGCCCGGGGGTTCGGCGCCTGCCGCC
GCCGCGGGGCCCTGGCGCGGCTTCTGCGCCGCCAGCCGCTTCTTCAGCTCGTG
CTTCGGCATCGTGTCCACGCTCAGCGTGGCGCTCATCTCGTTGGACCGTTACT

GCGCTATCGTGCGGGCCGCCGCGGGAGAAGATCGGCCGCCGCCGCGCGCTGCA
GCTGCTGGCGGGCGCCTGGCTGACGGCCCTGGGCTTCTCCTTGCCCTGGGAG
CTGCTCGGGGCGCCCCGGGAACCTCGCGGCGGCAGAGCTTCCACGGCTGCC
TCTACCGGACCTCCCCGGACCCCGCGCAGCTGGGCGCGGCCTTCAGCGTGGG
GCTGGTGGTGGCCTGCTACCTGCTGCCCTTCCTGCTCATGTGCTTCTGCCACT
ACCACATCTGCAAGACGGTGCGCCTGTCGGACGTGCGCGTGCGGCCGGTGAA
CACCTACGCGCGCGTGCTGCGCTTCTTCAGCGAGGTGCGCACGGCCACCACC
GTCCTCATCATGATCGTCTTCGTCATCTGCTGCTGGGGGCCCTACTGCTTCCTG
GTGCTGCTGGCCGCCGCCCGGCAGGCCAGACCATGCAGGCCCCCTCGCTCC
TCAGCGTGGTGGCCGTCTGGCTGACCTGGGCCAATGGGGCCATCAACCCTGT
CATCTACGCCATCCGCAATCCCAACATTTTCGATGCTCCTAGGGCGCAACCGC
GAGGAGGGCTACCGGACTAGGAATGTGGACGCTTTCCTGCCCAGCCAGGGCC
CGGGTCTGCAAGCCAGAAGCCGCAGTCGCCTTCGAAACCGCTATGCCAACCG
GCTGGGGGCCTGCAACAGGATGTCCTCTTCCAACCCGGCCAGCGGAGTGGCA
GGGGACGTGGCCATGTGGGCCCCGCAAAAATCCAGTTGTACTTTTCTGCCGAG
AGGGACCACCAGAGCCGGTGACGGCAGTGACCAAACAGCCTAAATCCGAAG
CTGGGGATACCAGCCTCTAAGACGGTTGGAATGGCCAGCTTATGAAGGCAAA
TTTCCACTCGCATTATTTAATGATGGAAGATTCTGGGGGAGAGTTGTGGATTT
CATAAAGCCAAACATTTAAAGCTAGAGACGGGGGAGGCTTACCACTTTCCCC
AAACAACATAAAAGACAATGTCCTTCTTCAAAAG

The following amino acid sequence <SEQ ID NO. 67> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO.9:

LEPTSKAPPGPQRPPPLRPSPAPRGGRPPAPSHHSDLAAAAPGAGGDPRPPLGPME
EPQPPRPASMLLGSQHS GAPSAAGPPGGTSSAATAAVLSFSTVATAALGNLSD
ASGGGTAAAPGGGGLGGSGAAREAGAAVRRPLATEAAPLLSHGA AVAAQALVL
LLIFLLSSLGNCAVMGVIVKHRQLRTVTN AFILSLSLSDLLTALLCLPAAFLDLFTP
PGGSAPAAAAGPWRGFCAASRFFSSCGIVSTLSVALISLDRYCAIVRPPREKIGRR

RALQLLAGAWLTALGFSLPWELLGAPRELAAAQSFHGCLYRTSPDPAQLGAAFS
VGLVVACYLLPFLLMCFCHYHICKTVRLSDVRVRPVNTYARVLRFFSEVRTATT
VLIMIVFVICCWGPYCFLVLLAAARQAQTMQAPSLLSVVAVWLTWANGAINPVI
YAIRNPNISMLLGRNREEGYRTRNVDAFLPSQGPGLQARSRSRLRNRYANRLGA
 CNRMSSSNPASGVAGDVAMWARKNPVVLFCREGPPEPVTAVTKQPKSEAGDTS
 LDGWNGQLMKANFHSHYLMMEDSGGELWISSQTFKARDGGGLPLSPNNI

The following DNA sequence Seq-2588 <SEQ ID NO. 10> was identified in *H. sapiens*:

TCTCAAAAAATAAATAAAAAACCACTGTACATCAACAAGGCCCTTGGGGGACA
 GCTGGGGGCATAAGTAGGTGTCAGCCATACATCAGAGCAGTGTGCCTGCCCTG
 AGCTGCTTGGGGTTGACCAGCCTGGTGTCCAGAAATGCCTGCTGGAGGGAGT
 CGTGGTACAGGAAACCTTGTGCTCTTAGAAGGTCTCCTGAGAGGCCCTGCAA
 AGCCAGAGTCCCTCTTAGCAGCTCAGATCAGTGCTATCAAAGTATAGCTCGG
 GGATTGCTGCCAGCATACAACTTTTACTGGTCTGCAGCGAGATAAGTACAG
 AAATTGAAAGTAAGCATTTAGAACTTTTATAACAATTTTACAAGGTCTTGTC
 AAATGTTATTAAAACAAAGCTGAGGCTGGAATTTACCTTTTTTCATTTGTTT
 TTTTCAATTTAAACAAATTGTAGTAAAATATAGGTAATATAAATGTACCATT
 TAGCCATTTTTGAGCGTACAATTTAGTAGCAGTAAGTGCTTTCACAATATTGT
 GTAACCACTAGTATTATATAGTATATATTTTTAAAATTTTACAGAAGTATTAA
 GTTAGCAGCAGATTAAACATTTTTTTCTTAAATTGAGCTTGAGAAGCGCTGGC

The following amino acid sequence <SEQ ID NO. 68> is the predicted amino acid
 sequence derived from the DNA sequence of SEQ ID NO. 10:

ASASQAQFKKKMFNLLTYFCKILKIYTIYWLHNIVKALTATKLYAQKWLKWYI
 YITYILLQFVIEKNEMKKVKFQPQLCFNNIQDLVKLLKFLNAYFQFLYLSRCRPV
 KVCMLAAIPELYFDSTDLSCEGLWLCRASQETFEHKVSCSTTPSSRHFWTPGWST
PSSSGQAHCSDVWLTPTYAPAVPQGPCCTVVFYFLR

The following DNA sequence Seq-2589 SEQ ID NO. 11> was identified in *H. sapiens*:

AGAGAGCAGATTGCCCTGTGTAGGTCAGGTCTGGGTTCTTTCTAGTCCAGAGT
AGGGAAGAAACAGGAAAGAGGGCTGGTGTGAAGGACCTTCAGCCACGAGA
AGGGCTGTGTACCATGTAGCCCTCTGGGGAGGCACAAAAAGGCTCACCATT
TCTGAAAATGACTAGACTGCAGGATCCACGTGAGTGTGACTATTGCATTCAT
GACCTTATCCACAGGGCCTCACAAGGTGCCTGACATGCAGTAGGCTCCAGAT
GCATATTTATTATAAAGTGAATAGTCCTTAAGCTGCAGGGTCCCTTCTATTTG
CATTCTAAGAAATAGTCACTTTTATGCCTAATTTTGTATTTGCAGTTTTATAAG
TTTTATAAGAGGGTCTCCCAAATAGTATAAACTTCAAGCCCCACAAAACCTAT
GTTTGCCTCCCATAGGCATGCAATAAATGTTCGTGGATCTAATGAGTAACAA
GAAAAAGAAGGAACAAAACCCTAACCCCTCCCCTACCCAAACCAGTGGCAA
CCGGGGAGGATCAAATTCAACCTTGATCAGTCAGAGGCAGCATTCTAAATT
ATTCCCAAGCAGCAATAGACAATGATTTACCTCAATTAATTCAGCCAGTTAA
AAGCTTAGTTCTTACTTGCCAACCGAAGGCTTGAAGGCAAAATGTGTTTAAG
CCTC

The following amino acid sequence <SEQ ID NO. 69> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO.11:

RLKHILPSSLRLASKNAFNWLNLRHIVYCCLGIECCLLIKVEFDPPRLPLVWVGEG
LGFCSSFFLLLRSTNIYCMPPMGGKHRFCGASLYLGDPLIKLIKLIQNAKLFLR
MQIEGTLQLKDYSLYNKYAS
GAYCMSGTLGPVDKVMNAIVTLTWILQSSHFQKMVSLFVPPQRATWYTALLVA
EGPSTPALFPVSSLLWTRKNPDLTYTGQSAL

The following DNA sequence Seq-2591 <SEQ ID NO. 12> was identified in *H. sapiens*:

TTCAGGCAGATGTCAGTTAAAACTTACCTCTGCACACTGCAAAAACTGTAT
AGCCCTGAACAGATACTTTTCTTGAGCATAGTTCCTTTGTCTCTAAAGCAGGC
ATAATTGCCAATGTGGGGATGATATTTAGAAATCTGAACTGATGTTTATTCTC
TAGGGGTCTTCTCATTTGAGCTGGGATTGGAGATGTCTAGTGTCTCAGAGCAG
CAATAAGAAAACAGAAACCTCTTCCAGCTTCTGACATCCAAATGTCAAGCTC
TTAGGAGAAGAATGGAAAGTCCTCAAGAAATGCAAATAGCTTTGGCAGAATA
GCTGATGAAGACCACCTCTCCCCCTCCAGAAAGGCATTGGTTCCCCATTTCAT
GGAAAAGGGAATGTAGAGAGAGATTAGATAATAGTACATCCATAAGGTTCTC
GGAATCTGCATCTGAGGAAGAGGGGCGTCAGAGACCCCAGCTGTTATCTATA
ATCCCTCCT

The following amino acid sequence <SEQ ID NO. 70> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 12:

EGLITAGVSDAPLPQMQLPGTLWMYYYYLISLYIPFSMNGEPMFWRGERWSSAI
LPKLFAFLEDFFPFSELDIWMSEAGRGFCFLIALRHTSPIPAQMRRPLENKHQFR
FLNIPTLAIMPALETKELCSRKVSQGYTVFAVCRGKFLTDICL

The following DNA sequence Seq-2592 <SEQ ID NO. 13> was identified in *H. sapiens*:

GCACTAGGGCAAAGTCAAGACATACGGGTGTCCAGTTCTAGCTTTGCAACTA
ACTGGTTATATATTTTAAAGTTACAGTCACTCTGCGCCAGTTTCCTCATTTTAA
ATAGAGTGGGTTAGAACTAGATAAATACTTTCATTTTGTCAAGCTCTAAATTC
TGACTTCAGGAAAAAACCATAAGGCACTGGAGGTTTATTCATAGGTTTTTCTG
CTGACCCCGTCCCTCTCTGTTTCTTCAACCACCACAAGACAATCAACTTCCCT
GATTGGAGATTGGAACAGGTGTGTTCTAATTCTAAATGCATCACTTAACTATT
AGTTCCAACCTCTCTGGGGCTTCCTTCAAATAGGGGAATTAGACTGGTCTCCAA
TCTCTTTGTACAGATGAGTAACTTTATTTACCCAAAGATTTAGTATTAACAGT
CGGGAGCAGGAGGGGAGAATACTTATGAGACAACAGCCATTTCCACAGTGGA

GAGGAATGGTTTGTTCCTCAATAGAAGTTACCAGATTTTCAGTCCCATTGCCAAA
TAGATATTATGAGCAAGGAAGAAATCTATAGTAGTAACTTAAGACCACCAGA
AAGATCAAAGCCCAGAGGGGTGAGGGTATGGCAATAAACATTAGACATATCTC
TAACCCTCTTTTGTGTTGAAATACTCATTACCCTGTGGTACTGGGAATACCTGT
GCCTACAA

The following amino acid sequence <SEQ ID NO. 71> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 13:

LAQVFPVPQGNEYFKQKRVRDMSNVYCHTLTLWALIFLVVLSYYYRFLPCSYLF
GNGTEIWLLGLTNHSSPLWKWLLSHKYSPSCSRLILNLWVNKVTHLYKEIGDQ
SNSPIRKQVRGTNSVMHLELEHTCSNLQSGKLIVLWWLKKQRGTSAEKPMNK
PPVPYGFFLKSEFRAQNESIYLVLTHSIKNEETGAELLKNIPVSCKARTGHPYVLT
LPC

The following DNA sequence Seq-2593 <SEQ ID NO. 14> was identified in *H. sapiens*:

TTCTGCCATCGCAAGGGGAGGGAAGAGCACCTAAAGGGCTTATGAGAGGTTT
GACTGACCAAGGGAGGGAACAGAACACATTCCTTTCCATTGGCTAGGACTCG
GTCACATGGCTTTCCTCATTATTAGTGAGGCTTGGAGAATTCATCTATTTGT
GAGCCCAGGAAGAAGAGAAAACAAATTGTGGTAAACATTTAGCAGTCTCTAT
GACAATAGTCTGTATGTTGACTGCAAGGTGGATGAACAAAACCAAGCCTCC
TTTAAAGCAATACAATCTGGCAGAGTCCCTGGGTTATCATTCTGAACATAGAT
GCTTATTGTTCAAGAGTTAAGAAAATTAGCATGACTGCATTCCAGTTCTATAA
ATTTAATCTTTATTCAGCATATTGTCATCCACATGTCTTAAAAAATAAAATAA
AAAACAAAAAACCTAGTAACCTACGTTTTATATAGCAAGGAACACTCATATAT
ATCACTTCATTGTATCCTTACAACAATCCTGTGCAGTATATGTTTTACTCCCTT
TCTTCTATGTTTTGTATATAAAGAAATGAGCCCCAGGGAGTTGAATGGCTTGC
CCCAACTAGTGAAGCTAAACTCCAATCCAGGTCTTTTTATTCCAAATCCAT

AATCTACAACCATCTGTAGAGAGTTATAATTAAGAGATATGAATGGTCAGGG
GCCTTTCCATTTTCAGTGCAAGTCTGCCCAGCTCCAACCTACCAGCATCTG

The following amino acid sequence <SEQ ID NO. 72> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 14:

LPSQGEGRAPKGLMRGLTDQGREQNTFLSIGDSVTWLSLIISEAWRIHLFVSPGRR
ENKLWTFSSLYDNSLYVDCKGGTKPSLLSNTIWQSPWVILNIDAYCSRVKKISM
TAFQFYKFNLYSAYCHPHVLKNKIKNKKPSNYVLYSKEHSYISLHCILTTLCSICF
TPFLLCFVYKEMSPRELNGLPQLVKLKLQSRSFYFQIHNLQPSVESYNEIMVRGLS
ISVQVCPAPTTSI

The following DNA sequence Seq-2594 <SEQ ID NO. 15> was identified in *H. sapiens*:

AATCCTGCATTTCCCATGCTCTGGGGTGAGAAGGAATTAGCTGGGAGCCAAT
TAGCAATCTTGTGAGAAGCAAATGAATTTTGAATAAACTGGATACTTAACT
GAAATGAGACCATTGAAACCAGAAGAGCCTGAGATCCATCAGTTAGAGGAA
ATAAAAGAAGTGGCATTTCCTTGCCATCTGGGTGCAGTGTGAGTGATTTT
TAATCCTACCACATTTTATCCCTGCTTCCCTTAACTGTAGGACCCAAGGAA
CCTGGCTGTTTTGTTCAACATGATGTGACCCCATACCTAACCAGGCCAGGCAC
AAAATTGGCCTCCAATAAGTAGTGGATCAAAGTATGAATGGATAAACTGAAT
GAATGAAGCCAACTTGAATTTCTCCATAGCTTATCCAAATGGGAATGGTAA
AAATCATAAGCTTTTGAGAAGAGAACTTATTAAGAAGCCCTACATCAGTCAT
GACTGGCATCATTGGTTAGTTTACCCAATTTTCTCCTTCCCTTCATCTTCCTAA
TGCAACTCTGGTTTGGGCTGCAGTATACCCAGTTAGAATACGCCCTCCCAGA
GTCTCATCCAGCTGGAGATGATCAAGTCACCAGTTCTAGCTAATAAGTTGCCA
GCCAAAGTATTCAGGATGAGACTTCCAGAAAAAGCATTGTTTTCTTGATAAC
AATGGACAGACC

The following amino acid sequence <SEQ ID NO. 73> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 15:

SVHCYQENNAFSGSLILNTLAGNLLARTGDLISSWMRLWGGRILTGYTAAQTRV
ALGRREGENWVNPMMPVMTDVGLLNKFSSQKLMIFTIPIWISYGEIQVWLHSFSL
SIHTLIHYLLEANFVPGLVRYGVTSCTKQPGSLGPTVGKQGKCGRIIKITHTAPRW
QGKCHFFYFLLMDLRLFWFQWSHFSLSIQFIQNSFASDKIANWLPANSFSPQSMG
NAG

The following DNA sequence Seq-2595 <SEQ ID NO. 16> was identified in *H. sapiens*:

GACTGTTATTACTGAAAGTCATTGCTTTTAGACTCTTCCAACACTACAGAGCAAG
GAAGTTTATGTGTATATAGTAATCTGTGAATATACACATACATACACATATTT
CTATATGTAATCATCCATATTTAAATTAAGTAGAATATGAGTTCATACTGATA
TCTCCAATCCTAATCAGTTACCACAGGGATTATTCCGGCCTTTTTCCCTTGGA
AGTTTGCAACTCCTGCTTCAACAGTTAGAAATCTGGCTTCCATATTCATTTGC
TTAATTGTTCAATTCCAGTACACATAAATGGTGGCTTCAGAATTAATAACTTA
TACCTCCATGGGAAATAACTTTATTAATACTAAAGTACAGCACTTATGTATAGTA
CTTTTTGAATTTTGTAGACTTAGAGATTCCTCTTCTTTTCCAAAGTTACTTAGGT
CAGAACCATTTTCCATTCTTCAGTGAAGTTGTCTTATGTATTTGTAATACAGTT
AGATTGTTCTGTTCATATGGTGCATTCCATCCTGGGATTTCCCTATCTCTTTTTT
AACATTTGCATATATTAAGTTTCATTCTTTTGTGCTGTATCATTCTATGGGTTT
CAATTAATGCATAGTGTCATGAATCTGCCACCATAGGAGCATCATACAGAGT
AGTTTCACCAACTTAAAAAATTCCTATGTTTTAC

The following amino acid sequence <SEQ ID NO. 74> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 16:

LLLLKVIAFRLFQLQSKEVYVYIVICEYTHTYTYFYMSSIFKLSRIVHTDISNPQL

PQGLFRPFSLGSLQLLLQQLLEIWLPHYFALFNSSTHKWWLQNLIPPWEITLLTKVQ
HLCIVLFEFLDLEIPLLFQSYLGQNHFPFFSEVVLICNTVRLFCHMVHSILGFPISF
FNICIYVSFFCAVSFYGFQLMHSVMNLPPEHHTFHFQLKKFPMFY

The following DNA sequence Seq-2596 <SEQ ID NO. 17> was identified in *H. sapiens*:

CGTTCCTTCCTCTGTGTCATAATGGACATGATGATAGTTGGCTCACTCAGTAA
ACATTCTGTGTCTGGAAGGATTTGATTTGTCCTTTTCTTGAGGCAACAATTTTG
AGGTGATTTGAAAAATCTTTCTTGAAAAATTAAAAAATTTTCTAATTAATAA
TAATGCAAGCTCATTAGAAAAAATTGAAAAATAAATAAAAGCACAAATTTT
CTTAACCACTTAAAGATGACCATTGTTAGTTTTTTTTTTTTTTTGGTGCTTTTTT
CCGTTTCCAATCTCTTTTCTATTAAACTTCTGAAATGTGATTGTAGCAATGA
CGCATAAGGGGCCCTTGACACATTGAGAAATTTATAAATACGCTGGCTTCTTG
TCTTGCTTTTGTCCCCAGCTTAACTGGGAACCTCTTTTCTATATCTTTGAACT
CCAAATCCTAGATAATTCTTCAAGGTCAAGCTCCAATGTCTTGCTGGATTCTT
CTCAGCAGGAATTGATCTATTTTCTCTGTATTTTGTGCCACAGGATCTATGA
CTCTCTTATGGCAACTACCACCTTCTGCCTTATATTACGATTTTGAATCTTCC
AACAAAGTCTAATTTTTTTTTTTTCAAATGAAGTCTCGCTATATTGCCCAAGCT
GGAG

The following amino acid sequence <SEQ ID NO. 75> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 17:

FLPLCHNGHDDSWLTQTFCVWKDLICPFLEATILRFEKSFLKNKIFLIKNNASSLE
KNKINKSTIFLNHLKMTIVSFFFLVLFVSNNLFSIKTSEMLQRIRGPHIEKFINTLA
SCLAFVPSLTGNSFSISLKLQILDNSSRSSNVLLDSSQQELIYFLCIFVPQDLLSYG
NYHLLPYITIFESSNKVFFFFQMKSRYIAQAG

The following DNA sequence Seq-2598 <SEQ ID NO. 18> was identified in *H. sapiens*:

ATGTCATGGGAAATGCAAGAATATGTGTCCAGCATGGAAGGGAATCAGTATG
GAAGTCTTTTGATAAATTGTGGCATTATCACTAACATTGCCTCAAACTTTA
GACTACCTGCCATATACAAATTAGAGGTGAAAATTACTTCCATGTAATATAC
AAGCCAACACAAAGAATCCTATCCCAGTTTCTTGGATGGATAGGCAAGAATC
TGGGTAAGGTTTATTGTGCAATAATCCTCTTCTCTTCTATAGGCCAGGATT
AAGTTTACCTCAAAAATGGAAAATTTTGGCTGGGAAAATTACATGTGGGAAG
ACATCTTCAGTGGAGATTTTAGTAATTACAGTTTCAGCTATGACCCTACCCCT
TTTCTACTAGATTCTGCCCCATGTTGGCCAGAATCCCTAGAAATCAATTATGT
TTTGATCATCATCTATGCCCTGATGTTTCTACTGAACGTGATGTGAAACTCCC
TGCCGATGCTGGTCATCTTATTCAGCTGAGTCAGCCACTGTCACCGATGTCTA
CCTGCTGACCCTGGCCTTGGCCGACCTGTTCTTTTCCCTGACATTGCCCATCTT
GGCTGCCTCCAAGAATGAATGGCTGGGATTTTGGCACAATCTGTGCCAGGT
GGTCTAGCTCCTGAAGGAAGTCAACTTCTACGGGGGGTATTCTACTACTGGCC
TGCCGCAGCATGGGACTGTTA

The following amino acid sequence <SEQ ID NO. 76> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 18:

VMGNARICVQHGRESVWKSFDKLWHLSLTLPQNFR LPAIYKLEVKITSMYTSQH
KESYPSFLDGARIWVR FIVQSSSLFYRPGFKFTSKMENFGWENYMWEDIFSGDFS
NYSFSYDPTPFL LDSAPCWPE SLEINYLIIYALMFLLNVMNSLPMLVILFSVSHC
HRCLPADPGLGRPVLPDIAHLGCLQEMAGIFGTICARWSSSRKSTSTGGILLAC
RSMGLL

The following DNA sequence Seq-2600 <SEQ ID NO. 19> was identified in *H. sapiens*:

TATGATATTT CAGCCATGGTGCTGAACATTTCCAAACAGCATAAATGCACCAT
GTGTGTATGTTTTCTTTGGGATGCTGTGCTTAGAGGGTAGCAGACAGGGTGC

AAAGTGAGAAGGACCTGGCTCTGCACCCAACACTGCCAGTATTGAATCCTGA
CTCCATCATCTGGGAGCTGTGCAACCTACGCAAGGTACTTGGCCTCAGTTTCC
TCATCATCCCCATGGCATT TTTTGTGAGAATTAAATGAGCTGAAACCTTGAAAC
CCCTTCAAACAGCAGCTGGCACAGAGGAAGCACACAATCAATGTCAGCTGTA
CTCTTCCTGGCAGTGTGGAGATCCCAGCTCTGCCCCTAGCTAGTCACTTCTCT
TCTTGGAATCTCAGTTCCTTCATCTGGGAAATGGGAGCAGATGTGAAAAGGG
GCAGGGTGAGAATACATATGAAAGTGCTGGCTCCTGGTGCATAGCAGGCACT
TAATAATGATACACTTTTCCATCTTCTGCCTTCCCCAGGGATGCATTGTGCCA
TGTAAGAGAGAGAGCCTCCAGGGTTGGCGAGAGTTTTTGATCCAGGCTTTTTTC
AGGTGTCAAAGATGAGCTGGGTGATTCTCCATAGATTTTCCTTTCTAACAGGT
GACAGTTCTGTTTCAGAAATACTGTGGATGTTTACAGGTTTACAGCACAT

The following amino acid sequence <SEQ ID NO. 77> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 19:

VLTTSTVFLKQNCHLLERKIYGESPSSSLTPEKAWIKNSRQPWRLSLLHGTMHPW
GRQKMEKCIHKCLLCTRSQHFHMYSHPAFFHICSHFPDEGTEIPRREVTSGQSWD
LHTARKSTADIDCVLPLCQLLFEGVSRFQLIFSQKCHGDDEETEAKYLAVAQLPD
DGVRIQYWQCWWQSQVLLTLHPVCYPLSTASQRKTYTHGAFMLFGNVQHHGNI
I

The following DNA sequence Seq-2601 <SEQ ID NO. 20> was identified in *H. sapiens*:

TTTATGCTCATGTAGTTCTTTCCAAGAAGAGAAATTACAGAGTCAAATTGTAG
AAATATTTAAAAATCTTTGGCACACATAAACAGTATCCATATAATTTATACCA
TCTTTTAGATGAGTTTTAACACCAAATGATAGAAATCTCAGTTTCATACAGAT
TTGGTGGGCTGGAACCAAATACTTGCCTGATAGGCTGTCCCCTCGTCTTTCT
AGCTGTTCTGGGAAAGGCAGTTCCTGGTAAGAACTCTCCCTACGGCCCCCTTTC
ATCTCACTGTTCTCAGGGCATAGATAAGTGGGTTGAGCAGTGGGGTTCCCA

ATGTGTACACCAGTGAGATGAACTGATCTTGCTTGGGGTTGTAGCTGGAGCT
GGGGCACAGGTACATGAAGGCACAGCAGCCATACTGCAGCAGCACACAGT
GAGGTGGGAAGAGCAGGTGGAGAAAGCCCGGTGGCGGCCAGCAGCCGAGTG
GATCTTGA

The following amino acid sequence <SEQ ID NO. 78> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 20:

KIHSAAGRHRAFSTCSSHLTVVLLQYGCCAFMYLCPSSSYNPKQDQFISLVYTLG
TPLLNPLIYALRNSEMKGAVGRVLTRNCLSQNSERRGDSLKGKYLVPAHQICMK
LRFLSFGVKTHLKDGINYMDTVYVCQRFLNISTILCNFSSWKELHEHK

The following DNA sequence Seq-2602 SEQ ID NO. 21> was identified in *H. sapiens*:

TTTAAGCCACCCAGTCTGTGGTGTCTGTTATGGCAGCCCAAGCCAGCTACTA
CAGGGTGGGACGAGGGGAGGAGCATGGCCTCTGCTGGAAGTGCAGGCAAAT
GATCCCCCAGGAACAATGATGGGAGCTTCTGATTGCTCTCATTATCTCTGCAA
AGTAGGAAGAAAGATTCATCAGCTGAGCATGAGGATGGTAGAAAACATCTTT
GGGAAATTTTCAAGAGTGAAGGAAGGCATAAAATAGTCATCTAAAAAAGCA
GGAAAGGGAAAAGACAGAGAAATCCAGTATGAGTCCCAGGACTCCAGGAAG
CATCAGGACCCACTTGAAATTGCCAATGCTGAATTTAAAATGAGGCCAGTCT
GTACAGAAGCACTTCTGGAATTTGCTAACAGCTAAATAGAGTAGAATCAATA
CTTTAGAGAATACGAGTAACCAAAGGAATAAAATTAAGTATCACTTTTGT
GGTTTTTACTATTAATATTTTCTTCAGTGTAATCATAGCTGCCTGAATTCCTG
AACCCCTCTTATATAAATCTAAAAAGCTCTGGTTTATCATGGTTGAAAATTCA
TGGCTAACTTATCAGGCAAAGTGTCCCTAAAGCATTTTTTGAATAGCTTTAGT
ATCAAGATGGTACTGAGTGTACATTTTATTTCCCTGCTTAAAGGAAGGCTTAG
TTATTTTAAACCAAGTCTTATTTTATAG

The following amino acid sequence <SEQ ID NO. 79> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 21:

IKIRLGLKLSLPLSREMKCTLSTILILKLFKKCFRDSLDPDKLAMNFPQTRAFIYIRG
VQEFRQLFTLKKILIVKTTKVDQLILFLWLLVFSKVLILLYLAVSKFQKCFCTDWP
HFKFSIGNFKWVLMPLGVLGLILDFSVFSLSCFFMTILCLPSLLKFPKDVFYHPHA
QLMNLSSYFAEIMRAIRSSHHCSWGIIHLHFQQRPCSSPRPTLLAWAAITEHHRGL
GL

The following DNA sequence Seq-2603 <SEQ ID NO. 22> was identified in *H. sapiens*:

ATTTCTGGATTTATGCCTCCCCTGACCCATTCCAGGATTTACCCCAAACCTTC
CACACTCTCTTCTAACAGGGAAAGTTCTGTTATGACACAATAGTACTTATTAA
GACAGATTTACCTTCTAAGTCTCAGGACAGCATTTCACAACCAGAAATAACT
GGTCACATGAAGAACCAGGAGTCTGGTAGTAGTGAAATTCATTTTCCTTCTTG
AAAAAGTGGATCAAAGGATTCAAACAGCAAGTGGTGAATCAATGAAAAGTG
GTAAAATGGTGAGGAAAAAATGTTACTAAAAGATGACCTCAAGATTACTGGT
GCATATGAATTGCTTTTTTATATAGGAAAATACTGGATAATTTCTTATTGTCA
TAGTATAATTAGAAGCAATTTTCATGTGTTCAATTTGCCACATGAGTTTAAATG
GAATAGATTTGGTTCCCTCTCTAACATGAGTTCAGTGTCTGAACTTGGGCAA
TTTCTAAACAATTCTGAGCTTCACTACCTCTGCTTGAAAGTGAG

The following amino acid sequence <SEQ ID NO. 80> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 22:

SLSSRGSEAQNCLEICPSSDELMLEREPNLFHLNSCGKMNTNCFLYYDNKKLSSI
FLYKKA IHMHQSGHLLVTFFPHHFTTFHFTTCCLNPLIHFFKKENEFHY YQTPGSS
CDQLFLVVKCCPETKVNLSVLLCHNRTFPVRRECGRFGVNPGMGQGRHKSRN

The following DNA sequence Seq-2604 <SEQ ID NO. 23> was identified in *H. sapiens*:

CTTTGGAATTTTATTCTAAGCATCAATCAAGAGGTATAGTACGAGAAAGGTA
GAACATGTAATTATAAATTCAGGATTCAGGAAGTTTATTTTCTCTTCTTTTAA
ATTCTCTCAAAATGATCTTGATTCCTGCAAAGTGTTAGTATATCTGGTAAGTA
AGAGTCTATTTCTTTTAACTTCATCTGTATTAACCAGCTTTATATGACCAAA
ATGTCCCCCAAATTTAAATCTTTGCACAGTAAGGCCTTATATGTACACCTGGC
CTCATTTCAAAAGACTAAAGCAGTTGTTCTCAAATTCAGCTGCACATTAATAT
AAACTGGAAAAGTGTAAAGCTCCTGATGACAAAGCCACATGTGAGACTAAT
TTATGCTGAATCACTGGGCCAAGGACCCAGGTATCAGCATTTTTTAAACTAT
AGAGGAATAACCAGGGTTGAGAACCCTGCACAAAATGGTAAATGCAACTTT
TATTTAAGTTATTTTTTTTAAATAAATAATGGTTGAATTGATACTGATCTTAGT
ACCAAGTCATGGCAATTTTTTCAGACTTAGAGAATTCATCCTGGCATTGAGAT
TATTAAAGAACCTAGAAATCCAAGTGTTTTTGTATATTTTCCTGTAAATAT
TAGAGTATGCTAGTGCTCATCCTTATTTGATAATTTTGGAAAAATATATTAAA
ACATTT

The following amino acid sequence <SEQ ID NO. 81> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 23:

LEFYSKHQSRGIVRERNMLIQDSGSLFFSSFFSQNDLDSCKVLVYLVSLSLFLNFI
CINQLYMTKMSPKFKSLHSKALYVHLASFQKTKAVVLKFSCITLITGKLFKLLMT
KPHVRLIYAESLGQGPYQHFLLKLRNNQGEPLHKMVNATFIVIFFKIMVELILILV
PSHGNFFRLREFILALRLLKNLEIQVFLFIFFLILEYASAHPLYLIILEKYIKTF

The following DNA sequence Seq-2606 <SEQ ID NO. 24> was identified in *H. sapiens*:

ATTATCATTTGAATGTTGATATTACATCATATACAAATTGATTGCAACATAGT
TATTTAATGTAACATTCTATTTTAAAAGATAAATTTATCAGAATCATACATTG

CTACAGTAGTCTCCCTTATCCACAGGTTCAATTTTCTATGGTTTCAGTTACCTAC
TGTCAACAAGGATCCAACAATATTACATGGGAAAATCACAGAAATAAACAGT
TTGTAAGTTTTTAATTTGTGCGCTGTTCTGGGCAACGTGATAAAATCTCATGCT
GTTCTCTCTATCTTGCCTGAACATGAATTATCCTTTGTCCAGTATATCCACAC
TACATATGCTACCTTCCCATTCAATTTAGTAGCTGTTTTGATTATCTGATAG
AAAAAACACACAGTATATATAGAGTTTTTTATGGGGCAAGGGAAAACCTTTCT
CTTTGTCTCTGAAGATTCAGTGAAGAACTCAACTCACAAGGGCAGACTAATA
GGAATGAAGGTAAAAAATATATTAACATCAATGGAGATAACTACAG
AGTGATTATTCCATTGCCATCAATGGACTACAGTGGCTTAAATATCGTTTTGA
GGTTACAAAAGAGTGGAAGTCTTGGGATCTTGGCAAAACAGGTTATGGGAA
GAAGAGAAGAGAAACCCTGGTTAGCAAAGGTCATCTTGTGATGC

The following amino acid sequence <SEQ ID NO. 82> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 24:

IIIMLILHHIQIDCNIVICNILFKINLSESYIATVVS LIHRFIFYGFSYLLSTRIQQYYM
GKSQKTVCKFFVRCSGQRDKISCCSSLCLNMNYPLSSISTLHMLPSHSFSSCFD
YLIEKTHSIYRVFYGARENFLFVLRFTENSTHKGRLIGMKVKKKIYHQWRLQSDY
SIAINGLQWLKYRFEVTKRVEVLGSWQNRLWEEKRNPGQRSSCD

The following DNA sequence Seq-2607 <SEQ ID NO. 25> was identified in *H. sapiens*:

TTTTTCCCCCTGAGTGTTTCTCTCATGCTTTCCTCCAAATGGAGATGGAGAG
GTTTCACCTCACTTTTCTCTAACTCTCCCTAGTTTTTTGGTTTCTTTTCTCCAC
ATCTAAAAGTGTGCAGAATGTCCCTTTAGCACATAGAAAATCTTTTCTTGACC
CTGCCACCTACTTAACTAAAATCCCACACTTTTCTTCTTCTTTAAGATTTCCT
TTATAATGGTGTGTGTCAATGGCCACATCCACCTTATCCATTCTTCTTAAAG
TTCCAGAAAAACGGTTTTGTTTCCTGTTACTTTAATGGAATTATTTTCCAAAG
ATCAACAGGACTTTCCTCAAGCCCAATCCAGTCGGTAG

The following amino acid sequence <SEQ ID NO. 83> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 25:

FFPLSVSLMLSSKWRWRGFTSLFSNSPFFGFFSSTSKSVQNVPLAHRKSFLDPATY
LTKIPHFSSSFKISFIMVCVNGHIHLIHSFLKFQKNGFVSCYFNGIIFPKINRTFPQAQ
SSR

The following DNA sequence Seq-2608 <SEQ ID NO. 26> was identified in *H. sapiens*:

ATACATGATAAGGTACATGGATCCAGGGGAAGGATGAAGGGCAGTGTGGGA
TTGCTTTTGAATTTCTCCAAACTCGCCCATAAAAGCAGACAGGACAACTAA
GATAACTAAACAAAAAAACCCACAGACAAACTATTACAAACCCCAAAAGA
AGTGTGGTGGGAACAAACATCTGATAGAATCAGACACATTACTGGTGACCGG
ACATAAGCCCTGTTAATGAGAAGCTTACATTTAGGAGAGTCAATTAAGTACA
CGCTATACACAACCTAAAGTGGTAAATGCTACCTTGGTTATTCAACTTCACTG
TTACATGCCTTGAAGTGTGGGGTGCCTGACCTGAACCATTCTGGTTGTGTTT
GATTCCTTAGGATGCCACCAACAAATAACATTGAGAAATACCCAGCTACTTTT
CATTGTTCTCCAATGGCAGCAAAGTACAAATGATCTCTATGA

The following amino acid sequence <SEQ ID NO. 84> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 26:

IEIICTLLPLENNEKLGISQCYLLVASGIKHNQNGSGQCTPHFKACNSEVEPRHLPL
VVYSVYLIDSPKCKLLINRAYVRSPVMCLILSDVCSHHTSFGVCNSFVCGFFCLVI
LVCPVCFYGRVWRNSKAIPHCPSSFPWIHVPYHV

The following DNA sequence Seq-2609 <SEQ ID NO. 27> was identified in *H. sapiens*:

TCCAGGCAGTATTCTCCATGACAATGAGGAAGGTAAGTCTGCAACAGAAGAA
CAATGGCAGAAATTTTAAGAAAAGTTTACCGCCTGGGACTATGACTCACCTTT
TGGGAGAAAATGTGACTAACCCTTTGTAAGAGCTTGTTGAGAGCTCACTTTCC
TGGGAGGAGTCGGGAGAAGGGGAGCATCAGCTGACGAAGAGGTGAAGGAGG
TACCCAACAAGAAAAGCGTAGAAGGACCAGGGATTTGGGGTCGGGTCTTCCT
CCTGATTCCAAGGGATGGCATAAGATATTGCCAAGTGAAGGAAGCGAAGTAG
AGCCAGCAAAGGAAGGTGAAGTGTGTTTCATTAGAAATAATATGTTGTGAT
AATTATACAAAGTACTAATTAGTAAATTTCTTTCCAACCTCGACACTCCAAAA
ATCCCTGTACTTATATCCCGAAGGCCTCTTCTTCCCCAAGCTGGAAGACACGG
TCACTCATTAGTCACCCACTGTCACAGGAGTAACAGAGACTACAAATATTGG
ACAGGACATAAGTGAGGGTCAAGCATCTGGATGCAGATGCATGACAGGATG
CAAGTCTTCCCAGCTCTCATGGACTTTGCGACAGATGCACAGAGTGAGGTA

The following amino acid sequence <SEQ ID NO. 85> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 27:

TSLCASVAKSMRAGKTCILSCICIQMLDPHLCVPVQYLSLLLLQWVTNEPCLPAWG
RRGLRDISTGIFGVSRLEARNLLISTLYNYHNILFLMKQQFTFLCWLYFASFTWQYL
MPSLGIRRKTRPQIPGSTLFLLGTSFTSSSADAPLLPTPPRKVSSQQUALTKGSHFL
PKGESSQAVNFSNFCHCSSVADLPSSLSWRILPG

The following DNA sequence Seq-2610 <SEQ ID NO. 28> was identified in *H. sapiens*:

ATTAAATGCCTGAACTCCCTTCAGCTCTGAACTCTGTGGTGTATTCTCTGAG
GACATTACCTCTCTAAGGGACCCAAATTAAACAGCTCACACCATCCATCATTT
TTCTGTCTGAGGTTTTATTTCCCTAATCAGATTTGGGTAAATTTTCAGCCTCTC
TCTGTCTCTTACTTCCAATCCAATAAAACCTGTATGGATTTGTTTTGTATTTC
TCTAATGTCATTATTCATTCTAAGAGTCACTGCCTGACCATTTCCCTGCCTATA
GCATAATTAGCTATTAAAAAGCTACACTGGCATGGTTTTCAAACCTGCATCCT

CTTTTCTGAGGTGGATTGATTCTAAACTGATTAAAATATCTCAGAATTTC
ATACAATTTTAAAATGCAACAGATTTTCAAGACTGCCTCATGACTCTGCCAA
GCCAAGGGAGTTAGCTGCCAACTCTCTCTGACTGCCAAGGAAGCCAAATAAA
TAATCCTGATGGTGGTTTTAAAATGAGAGGCAAGTGCCCATTTCTTAGGTTGA
CAGTGCCACCCTACACATTGACTTCTCCAGGGTTTGTAAGACACCAAGGGTG
ATGTTTCAGATTTTCCC

The following amino acid sequence <SEQ ID NO. 86> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 28:

LNATPFSETLWCILGHYLSKGPKLNSSHPSFFCLRFYFPNQIWVNFQPLSVSYF
QSNKTCMDLFCISSNVIIHSKSHCLTISLPIALAIKKLHWHGFQTCILFFGGLILNLK
YLRISNTIFKMQQIFKTASLCQAKGVSCQLSLTAKEAKIILMVVLKEASAHFLGQC
HPTHLLQGLDTKGDVSDFP

The following DNA sequence Seq-2611 <SEQ ID NO. 29> was identified in *H. sapiens*:

TCCACATTCTTTCTAAAGTTCTGAGCTTTTCCATGGGCTTCCATGGTAGGGAA
AGCACATGGCCTGGGTGTGGGTAGAGCAGGTGCGGCCATTTATATGTATGGT
TCTTTGCAAGTCTGGCATTGTGAAAATGGGTGATGCTTGTATTGTGTTTATTTA
TTCAATCATGTAATAGAAGATGCACATAAGATTATTTTGAAAAGTATGCCTTC
CATTTTCATGCTGAGAATAATGCAGGAAGTTCAGTGTAATGCAGTTATAATA
AAATAGTAGCAAAACAATATTTTGCTTTAAATCATGGAATTAGCAAGTAAAG
ACTAATTGGAAGCCAATCTTTTGCAAATTTTAAATGTAAGTTTATTTGGAG
GATATGACTTGTTGGCCCAGAGTACATATAAAGAACAAAAGAGTATAATTAA
CAACAGTTTCAAATATGGACTTACCAGGCATCTTGATAAAATCAGTATTGAC
ATGTATGTGAATGCCAACATTGTGTTTTTCCAATTCAATACTATGTTATGCCA
TAAACTGGTAGCAGTTATGAAAATTAGAATTGGTTAAAACTGTTGAAATC
TTTAAATTTTTCCTGTTA

The following amino acid sequence <SEQ ID NO. 87> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 29:

NRKNLKISTVFNQFFSLPVLWHNIVLNWKNTMLAFTYMSILILSRCLVSPYLKL
LLIILFCSLYVLWANKSYPPNKLTFKKFAKDWPISLYLLIPFKAKYCFATILLHHY
TELPALFSAKWKAYFSKSYVHLLLDINKHNTSITHFTNARLAKNHTYKWPHELL
YPHPGHVLSLPWKPMKLRRLERMW

The following DNA sequence Seq-2613 <SEQ ID NO. 30> was identified in *H. sapiens*:

TACGTGGGTTTCCCTATCGTCCTCTTCATGAGTTCTTTGTGAAAACAGAAAGA
CTGAGTCTGCCAATAACCAGCAAGAGAACAAGATAAAATAAATAAAATTAA
CCATAAGACTTTAACATATGACAAACAACCTGGTAAGGATTTTCAAAATCTTTT
GGTCAACTTTGATGGTATTTTTCCATACAATGAACTCTAAAATATGAAAAACG
TACATCCATATTTTAGATATAAAAGTCTCTTGCACAGGCCAGAAAATGAAAC
TTTAATTTAAGCAATAAAATTCCCCTTTGTAGACTGCAAATGGAGAACATGCT
ATCTAGCTTCATTTTTCTTCAACTTACATAAAAATGAAACAATGGTTAATGTT
CTGGCGGCATCTCTAAACATATTCAGTGAAACAAAATTTCTTACAAATGTCA
ACAGCTTACAACAAATAACATTTTATCCTGTTTAATTATTTAGAAACAAAATC
AGTTATGCTGAGATATGTTTGCATGGGATTTATATACTCTGATCATAGAAACA
AATTATTGACATCTGAATCTGAAAGCTGCAAAACATGATAAAAGACATAATA
AAATCACAGATTTGTTATTCTCTCAGGAACTTTTTCTAG

The following amino acid sequence <SEQ ID NO. 88> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 30:

KKFLREQICDFIMSFIMFCSFQIQMSIICFYDQSIIPCKHISALILFLNNTGNVICCKL
LTFVRKFCFTEYVRCRQNIHCFIFMVEEKSIACSPFAVYKGEFYCLNSFIFWPVQ

ETFISKIWMYVFHILEFIVWKNTIKVDQKILKILTSCLSYVKVLWLILFILSCSLAG
YWQTQSFCFHKELMKRTIGKPT

The following DNA sequence Seq-2614 SEQ ID NO. 31> was identified in *H. sapiens*:

GGTGCCCATGCTTGGTGGTAGGATGTATGAAGCTCCTTGCTCCTCCAGCTGGG
CATCCTGCCACTTGCTGAGCCAAATAAGGAATGTGGGGAAGCAGCAGGCCAC
CAGCCAGATGAGGGCCACTGCCTTCCAGGCAGCCCCATGGGACATGAAGGA
GAGGTAGCGCAGTGGATGGATGACTGCCAGGTAGGTGTGCAGCACAAATGGC
GGTGAAGGACAGGATGGTGGTGCAGGCGGCGAAGACAGCATCAGTGAG
AATGCCACAGGCCATGCGGCCAGCTCCCAGCCACCCAGGCTGCTGGAGGAG
ATGAGCATGTGGAGGAGAATGTAGGCCAGGTCTGAGAGCAGGATGTTAGCC
GGGAGCAGGTAGTGGGGCTCCTGTGCGAGCCGTTGGTTCCGCAGGATGGTCA
CCAGCAGCAGGGGGCTGACAGCCAGTGTGGCTGCAGCCAGCAGGCTTGAGG
GAAGGAAAAGCCAGTACAGCATGGAGCTGGGCACCCTGAGGTCCCCCAGGC
CCAAGGAAGTGTTGCTGGCTGCTTGGGGCATGCAGGGTGTCTTGCTGATGAG
CTGGATCAGGGCCGGCCAAGCTGTAGTGCCACAGGGCAAGGTGCCAGCTCA
TCCCCCATGCTTCCTGGCAGGGATGGCTGGCTTTGT

The following amino acid sequence <SEQ ID NO. 89> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO. 31:

QSQPSLPGSMGDELAPCPVGTTAWPALIQLISKTPCMPQAASNTSLGLGDLRVPS
SMLYWLFLPSSLLAAATLAVSPLLLVTILRNQRLRQEPHYLLPANILLSDLAYILL
HMLISSSSLGGWELGRMACGILTDAVFAACTSTILSFTAIVLHTYLAVIHPLRYLS
FMSHGAAWKAVALIWLVACCFPTFLIWLSKWQDAQLEEQGASYILPPSMGT

The following DNA sequence Seq-2615 <SEQ ID NO. 32> was identified in *H. sapiens*:

AACACTGACTTCTCTGAAGCAGTTGTCTAAAAGAACCTACACCATTTTTATT
 AGCAAAAAGGCTTTTGTAAAAGCAGGGGATAGCAGAAAGAGCTTTGTAAA
 AAATATGTCATGGATTTTAGGAGTTTCTAAGAGCAAGAAAACGTTTCTTAAAT
 AGAGGAATGAAGCAATTAGAGTTCCATAAAAATCACCTAATGGGCCTTCCAA
 AAGGCAAATGCTAAAGCCCCAGAAATCATCACTGAGGAAGTCTGAAGTAGG
 AAGAGACCTTGTTCTAGAAAGCCGACAAGGTAGAAATTAAAATGGAACAGG
 CCCAACTTGAAATTCCGAGACCAAAAGAGGAGCTGATGACATTGGTGGGAGA
 CAGGTGTGGGAATAAAGAATGTTGGTAGATTCTAGAGACATTCCAGCGATAA
 CACAGACAGGACTTTGTGACTGACTGTATGGGGCAGCTGCAGGGGTAGGAGA
 GGAGGAACGATTAAGACATGATGAACTGGGCTATGAGTTGGCAGCTCCATTT
 ACTCCAGAGAACACAGGAGGTGAAAATCATGGGAGACTTGATGAAAACACT
 TTGAGAGGCACCATGGGGATAAAAGCCAGAAATAAGGTGGGAAATGGTGGA
 AGCTATTCAATTCTAGAAAAGAGGGTGGGAGGATGAGCATAAGTTAACAGGA
 AACAAGTTAATTTTTTAAAAGTGCT

The following amino acid sequence <SEQ ID NO. 90> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 32:

HFKINLFPVNLCSSSHPLFNLPPFPTLFLAFIPMVPLKVFSSSLPFSPPVFSGVNGA
 ANSPSSSCLNRSSSPTPAAAPYSQSQSPVCVIAGMSLESTNILYSHTCLPPMSSAPL
 LVSEFQVGPVPFFLPCRLSRTRSLPTSDFLSDDFWGFSICLLEGPLGDFYGTLIASF
 LYLRNVFLLETPKIHDIFFTKLFLLSPAFNKSLFAKKWCRFFTTASEKSV

The following DNA sequence Seq-2616 <SEQ ID NO. 33> was identified in *H. sapiens*:

TTTCCCAGATAAATTGTATGCACAGTAACTGGTGTTCAGTATACCATAGCAT
 ATATACATCCATTTGGCACACTGCAGGTGCCAGTGGGACAACATACCAGAGT
 GTAAGTCTTCCTGATCATTTTCATGATGTCCTCAGTTATTTACCTTGTAATAAG
 CTTGTAAACGTCTATGATTGTTTTTGAGTCATCCCAATGCAGTCATGTAATAA

CAACATGTATTTTAAATGAAACTTGGGGATTTTCCTCCATACCTGAATCTCTA
GTATTCACATAAATGAAAAATCAAAATTAGGATAAGTTAGTGTCAAACATTA
ATGGATTTTTACAATGCTAATTGGTGTTCCTTTTTAAATTATTGCTGCCTACAG
ACACATAGCTATAGTTCCATGCACTTTCAACCACCAATGCTGCCAGGCTAGTA
AAGCAGTTAATGTATATTTGGGGTTAATTATCAGAATCACCAGAAACAATTTT
TTAATTTTTTAAAATATTTTATTTTTCCACAGATTATTGGGGTACAGATGCTGT
TTGATTACATAAGTTCTTTACTGGTGATTTGAGAGATTTGGGTGCACCCAACA
TCCGAGCAGTATACATTATTCCTATG

The following amino acid sequence <SEQ ID NO. 91> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 33:

FPRIVCTVTGVAVYHSIYTSIWHTAGASGTTYQSVSLPDHFHDVLSYLPCKLVN
VYDCFVPMQSCNNMYFKNLGIFLHTISSIHINEKSKLGVSVKHWIFTMLIGVPFI
IAAYRHIAIVPCTFNHQCCQASKAVNVYLGLIIRITRNNFFNFNILFFHRLLYRCC
LITVLYWFERFGCTQHPSSIHYSL

The following DNA sequence Seq-2617 <SEQ ID NO. 34> was identified in *H. sapiens*:

CGGGTTATTTAGAGAACCACTTGAAATACCACCTCCTTGGTAACACCAGCTCC
CTCCACCCCCTGAGCTCACGGTCTCTTCCTGTGAGATGCAGCACCAGGTAAG
GTCATTAACAACCAGGTTTAGAGTAAACAGTGCTGGGCTGTATTTCTGATCCT
GCCTTTCCTAACTGGGTGCTCTTTGGCAAGTTATTAAGTTACTTCATCTGTAC
AATGGGTTACACTTATGCCTTTTACATATGGTTGTTGCGAAGATTGAGTGATA
TGCATACCAAAAATGCTGAGCAGAACACCTTGTCATATCTTTCCTCTCTGTT
ATTAAATGGAGGCCTTTAAGGTTAAGTAATTTGTTATTGTTGTGGTTAATTTT
AGTCCTCTGAATTTTAATCTAGTACAAATTGTGCTGCATTTGGCACATGGTAC
ATGTTTCATGAATATTGAGTGTTGTATAAAGGAATGAAAAATCAATTACATGA
AAAGAAATTCCAAATCTTACATTTTACAAACACAGACACAAAGAATACTAAG

ATTTAAGTCTAGGGGCAAAAGTTAAGATTTGGCCACCAGCACGTGGTGAGCTT
CCTTGAAAGTTTGTCTTCTGGC

The following amino acid sequence <SEQ ID NO. 92> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 34:

GLFREPLEIPPPWHQLPPPELTVSSLDAPGKVINNVSKQCWAVFLLPFPNWV
LFGKLLSYFICTMGYTYAFYIWLLRRLSDMHTKNAEQNTLSISFLSVIKWRPLRLS
NLLLLWLILVLILYKLCCIWHMVHVHEYVLYKGMKNQLHEKKFQILHFTNTDT
KNTKILRGKSDLATSTWASLKVCFW

The following DNA sequence Seq-2618 <SEQ ID NO. 35> was identified in *H. sapiens*:

ATTCTAATGGCATTAAATCCATAGCATTATCTCCATCTCTGTTTTAAATATCATG
CATCCTCATTCTATGATTCAATTTAAAGGAATCCTTCAAAGGATCAATCTAA
ATAAATAACAAGTTAGCTTTCAGGCAAACAAATAAATTTGCTTTGTTTTATAT
TCACCATAAATATTTCACTTAATTACTGAGGTACCTTGTTTCAGGAAACACAAA
ACAACATTATAAATTAATTAGCACTGTCCCTGCTGACGTTTTAGTCCTGTGGA
ATGCAAAAGCTAAAAGTAAAAACAGGCCATGAAGCCCAACCAGAGCACACA
TCGTATGCAAATGATAAAGCCCACAAACATCATGGGATCATTCTGGGACAT
TCTGAATCACCAAAATTTTGTCTTAAATCAAGTATTGCCCTATTTATTTTCAA
TTCAA

The following amino acid sequence <SEQ ID NO. 93> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 35:

LNLKINRAILDRQNFGDSECPRNDPMMFVGFIICIRCVLWLGFMACFYFLLHSTG
LKRQQGQCLIYNVVLCLNKPQLSEIFMVNIKQSKFICLPESLVIYLDSFRIPLNII
EGCMIFKTEMEIMLWINAIR

The following DNA sequence Seq-2619 <SEQ ID NO. 36> was identified in *H. sapiens*:

TTTGGGTCTAGAATCCCCCTTGGTTTGGGAAGCATCCAGAAGGAGCTTCCATCC
CCATCCATTTCTTGCTCACTTCCTCCTCTCTAGCTTTGTTTACATGTCTCTCGAT
ACCTAGACAGAGGCAGAGGCATGGACTTCTGGTTCTAATCATTCAAGCCTTA
CACGTCCTTCAAGGCTCCATTGAGAATTATCTTTCCTCGGGGAGTCTGCTTCT
CCTATTTTCAGGATTTACTGACTATTCTCTTATCTCTTGTAACATTTAATATCCC
ACTCCTTAGCATTAACCTTTTAAACTTGCTTTCTAATCCTGAGGTTTGTGTTCT
TTGCCTTGTAATAATTCTTTGTAAATGGCCAGCCCAGTACGTAGCCCAGTCCCA
AGCACCACGTAGGCAATTGAAGGAGCTGGGACAAAAAGAGTTCTTTGTTTGA
ATTTCTTTTACTGCTCTGAGTTTACTCTGTATTTGCACATGAGTTTAAATGTTT
TGGGGCCATTGAACTATTTGAGAATCTAGAAGATAATACACCTCTTTTCAGAA
AAACACATATGAATACACACACACACATGCCACCTACACACACAATTTTGCA
TGTAATTTTAAGGATTCATTAACCTTAGCTTACCAGACTGTAAGTTCCTTTGC
ATATT

The following amino acid sequence <SEQ ID NO. 94> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 36:

YAKELTVWAKVNESLKLHAKLCVVACVVCVYSYVFFKEVYYLLDSQIVQWPQNI
KTHVQIQSKLRVKEIQTKNSFCPSSFNCLRGAWDWATYWAGHLQRILQGKGT
QTSGLESKFKSCGVGYMLQEIRESVNPEIGEADSPRKDNSEWSLEGRVRLELEPE
VHASASVVS RDMTKLERRKARNGWGWKLLLDASQTKGILDP

The following DNA sequence Seq-2621 <SEQ ID NO. 37> was identified in *H. sapiens*:

GCAAGTTATCTGTATTTATCCCCCTACAAACACACACTCCTAACATACAGTGG
TGAGAGAGGAACAACATAACTGCAGAGGAAGTAAGTGAGAGACACAAAGCA

GTCATTGGTTCATTGCTATAATGAAATTCTCCTAGACAAATGCTGCCAGGATC
TCTTCCCTGGGGATAAGGTCTAGTTATCTTCTGGAAGTGGTTTCCAGCTCAC
TATTCTCTACTGTATAATTACAGTGACTCCCTCATCCATCCTCTTGTCTTCTCA
GATCTTAACTTTATCCTCTAGACTCCAGGCTCCTCCTCTGAGATGTTCTCACTT
TTCTGCAACAAAAGCTGAGTCTATTTCTCAATCTGTTTGCTGTCCATAGAAAA
TGGAAGGTTTCAAGAGGCTTTTATTCAATTTTCTCAGTCTCTTTATTGCAAGCTG
GGTCCCATTTACTTATATAACTCTTTTAAAAAGTTTTGTGGGCTTTCTATGTA
TCAGATAATAGACCACTTCATTTGATAAAAAGCCACATTCTTTGTTTTCCAGA
CAAGCTTTCTATATTTTGGACAAGTAAGGCCACTTA

The following amino acid sequence <SEQ ID NO. 95> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 37:

KLSVFIPLQTHTPNIQWERNNITAEVSEERHKAVIGSLLNSPRQMLPGSLPWGGLV
IFLEVVSSTLSTVLQLPHPSSCLLRSLYPLDSRLLLDVLTFLQQKLSLFLNLFVH
RKWKVQRLLFNLSLFIASWVPFTYITLLKSFCGLSMYQIIDHFIKATFFVFQTSFL
YFGQVRPL

The following DNA sequence Seq-2624 <SEQ ID NO. 38> was identified in *H. sapiens*:

TTATGGTGTTTGTAAGATCTTATTGCCCAAAGAGTCTGTTCTGTCCATCTTATG
ATATCTGTTTTAACATTAATGATGCTCAGTTGTGTCTAGACCCTAAAAGAAGA
AGTTTGTATGACTTTCCATGCTGTTATGGTCAGGAATTTAGTTTTAAGCTTTTT
TGGGGCCTCTAAGCCACAAGGGGATCTGTTTCAGTCAGTTCAGTAGAGGGCTT
AGGATTTATCATCTTTAATTCACATTCCCCCATTTTGGTCAAATATGCCAAA
AGTAGCATCAATAGCCAAGCTCTTATTTTCATTCCATATTATTACCAGGTGGTG
TGGCTATCTATCTCAGATATATTCTGTTCTTCAATGGGACCCATATAGCCAAG
GGACTTATAGCCAAAAGACTTACAGCCAATTAAACATTCTAGGACAAAAGGG
AATGGAGGTGGGAAGGCATTCAATTATCCTTAAAAACCTTTTGAGCAATATA

AGAGCCACAAACCAAAAAGCCAAAAAGTAAGCTTACAAAACCGATTTATCTAT
AAGTTCTATGTGTTGGGCCATCGGCTCTTAGGCATCTGTGAGCCCATCTTTTTT
GGAGGATCTGAA

The following amino acid sequence <SEQ ID NO. 96> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 38:

MVFVRSYCPKSLFCPSYDICFNINDAQLCLDPKRRSLYDFPCCYGQEFSEFKLFWG
LATRGSVQSVQRADLSSLIHIPPFWSKYAKSSINSQALISFHIITRWCGYLSQIYSV
LQWDPYSQGTYSQKTYSQNLILGQKGMEVGRHSLFLKNLLSNIRATNQKPKSKL
TKPIYLVLCVGPSALRHLAHLFWRI

The following DNA sequence Seq-2625 <SEQ ID NO. 39> was identified in *H. sapiens*:

AAGGCAGAGGGGGCCAGCAGGGCGGGTTACAGAACCATGATGTGTTTTTAAC
TGGACTCACTTCTGCCAGTATCTGCCTGACTCTTCAGCCCATGTCTCTTTTCCT
TGTTGTAATACTAATGGGGGCATTAAGGAGCCAGAGAAGGGGCCTCCGACGC
CACTGCTTGTACCTCTGGAGTTACATTTAGCGGCATTTATATTTTGTGTCATGTGA
AATTCGAAATCCTCATCCAAAATGCAACTGTGGGGGA ACTCTCATAGGAATT
TCAGCCAATTCTGGCTCC

The following amino acid sequence <SEQ ID NO. 97> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 39:

GRGGQQGGLQNHDVFLTGLTSASICLTLPMSLFLVVILMGALRSQRRGLRRHC
LYLWSYIRHLYFVMNSKSSSKMQLWGNSHRNFSQFWL

The following DNA sequence Seq-2626 <SEQ ID NO. 40> was identified in *H. sapiens*:

CCCTTCCTCCCCAGCCATACCGTGACCCACCCATAAGCTGGCCCCCTTAGCTC
 TGGCTCACCTGGCTCAGACTTAGAGGTGGCAGGATTCCTGCTGCTCAGGAAA
 TAAGGACTGCTCTTGAGCTCCTCACAGGCCCCAGGAATCCCAACAAAAGCCA
 ACCAAGGCTACCTTCAGGCCTTCCAGAAGGGGGTGGTAGTGTCTCATCAGG
 TCCCCAAGTTTAGGGAGAGGGCAGCTGGGCCCAGGGCCCTTCTCCTTGTGG
 CTCAGGATTTAGCCCCACTTACCATGGTGCAGCCCCAGCCTTCCAGCCAACCC
 AGCATTAGAGGCAGTGGCTCCTCTTAATGCCAGGCCCTAGTTGGCTCAGGCA
 TAATCCAGCCAGGAAACCTCTCACCTTTCCACAGCAATGGCCACCAGTGTGA
 AAACGGAAGCCGACACAGACATGCCCTGCACCAAGCCGCTCATCTTGCATGT
 GGCATTGTCTGAAGGGCCACCCTGCAATGACAGAGGCCCCACAGAGTGAGA
 GATGCCACGCATCAAGAGCCAGAGACTGAAAGCCCTCCAAGCCAGGTCCCC
 TCTGAGCTTGGATCTTTCCTCCATGACCTGCTAGGTGTTATCTGGTCTCTGCT

The following amino acid sequence <SEQ ID NO. 98> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 40:

SRDQITPSRSWRKDPSSSEGTWLGGLSVSGSCVGISHSVGASVIAGWPFDNATCKM
 SGLVQGMSSVSASF~~TLVAIA~~VEREVSWLDYAANGLALRGATASNAGLAGRLGL
 HHGKWGILSHKEKGPGPSCPLPKLGEPDEDTTTPFWKARPWLAFVGIPGACEEL
 KSSPYFLSSRNPATSKSEPGEP~~EL~~RGPAYGWVTVWLGRK

The following DNA sequence Seq-2627 SEQ ID NO. 41> was identified in *H. sapiens*:

AAACTCCCAAACGATAGTAACTTAAATAACTTAGGTCTTTAATACTCTCTTCA
 GTAAAAGAATTCTAGTAGTTGGAGAGTCCACCATCCCTAGGAATGTAGTTCTT
 GTCCTCATGGTTCAATATAGCTGCTGATGCTCCAGCCATTACAGCCACATTCC
 AGACAGCAAAATATGGAAAGAGAATGAAGAGAAGAAGAGCGTGCCTAGGAG
 TCCCATGTATTATTTCCATATATATTTGGGCAGAACCTAGTCACAGGGCCACT
 CCATACGTATCTGTTAGCTATTGCTACATAGCAACCACAAAATTTCCATGTCA

TACAACACATATCTGCAGGTTGGCTAGGGTTCAGTTCCTCCATGCTGGTCTCA
GACAGGCAGTTCTGCTTCGGGTTACAGTGGCTGAGCTGATTCCATTTCTCACT
GCAGGTCTGTGTTTCAGTTGAGTGACTGTCCCATGTGCCTTTCATCTTCCTTGG
GTTGATGAAAGGAAGCCACATCTTTCAACAGGGCTAGCCACATCTGTTTCCTC
ATGGCCCAAAGAGACACCAAAGAGCAGATAGAAATAGGTGAGACCTCTTAA
GGTCTAGACTCAAACTGGCACACTGCCACGTCTGTTTACAAGCTATTAGCC
AAAGCATAGATGCATTACCAAGCCCCAAGTCAAGGGCAAGAAGTACAATCC
ACC

The following amino acid sequence <SEQ ID NO. 99> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 41:

TPKRLKLRSLILSSVKEFLESPPSLGMFLSSWFNIAADAPAITATFQTAKYGKRMK
RRRACLGVPCII^{SI}YIWAEP^{SH}RATPYVSVSYCYIATTKFPCHTTHICRLARVQFLH
AGLRQAVLLRVTV^{AE}LIPFLTAGLCFSVTVPCAFHLPWVDERKPHLSTGLATSV^P
HGPKRHQRADNRD^{LL}RSRLKTGTL^{PRL}FTSYPKHRCITKPQVKGKKYNP

The following DNA sequence Seq-2628 <SEQ ID NO. 42> was identified in *H. sapiens*:

ACAATAATTTGTTGTATATTCCAAAATAGCTAGTAGTGTAAATGTTTCCAATAC
AAAGAAAAGATAAATGTTTGTGGTGATGCATATTTCAAGTACCCTGATCTGA
TAATTGCACATTGTATACATCTATCAAATATCAGCAGTACCTCCAAAATATG
CTCAATTATTGTATAAGTACAAAAAAATTTAAACAATTATAATGTATTATTTA
TTTCTAAATGGTTTATTAGATTTAAAATTTTCTTGGTGTTTAATTTTTTCATAT
ATTACCTTATACCCTTTAACTTCCTAAAATATATTAGGTCTTCATATTTTAGAG
TAAAATTCTGAAAATCCTTTGAGTATCTGATTTTACAATCTTTTCTTCCACTGA
TTTTCCCTTAGCAATGGCCTGTTTAAAGTGTTGTGATGATGTTACTGAGAAAT
GGGCTGGCTACCTGATGCACATAGAAGCCAATACTATGGCAGTGGTTTTCTA
GAAAAGAAAAGGCTTTACTGTGAGTCTACTGGCAAGGAGACAGGTGGCAAC

ACTCAAATCTGTCTCCCTGAACTGAGGATGGTGGGGT

The following amino acid sequence <SEQ ID NO. 100> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 42:

TIICCIFQNSCNVSNKKRMFVVMHISSTLILHIVYIYQNISSTSKICSIIVVQKNLNN
YNVLFISKWFIRFKIFLVFNFFIYYLIPFNFLKYIRSSYFRVKFKSFEYLILQSFLPLIF
PQWPVSVVMMLLRNGLATCTKPILWQWFSRKEKALLVYWQGDRWQHSNLSPT
EDGG

The following DNA sequence Seq-2629 <SEQ ID NO. 43> was identified in *H. sapiens*:

CCTCTTACTTGGGCCCCGTTCACTAGTCCTTCAGCCAACTGCCTCACATGCT
ATTCCCAGTATGAAAATCTTGCCATTCCCTTTATCTTTTTTCTCTTCTCTCATTT
ACAGCCCTGTGCTAGTTTCTTCATTCCCTTCAAGTTCTGGCCAACTTTATTTA
CCTCTTGACTGACCACTCCATCTAAAATAGTACTCATCACTGTGTATCCCCTC
AACACACTTTATAGGTCATGGCCATCACCTGATAATGTGTTATGTATTTTTTG
GTTTACTTGTGTGTAGTTTCATTCTTGCTGTAAAGAAATTCCTGAGAC
TGGGTAATTTATAAAGAAAAGAGGTTTAATTGACTCACAGTTCTGCAGGCTG
TATGGGAAGCATGTTGCTGGCATCTGCTTGGCTTCTGGGGAGGACTCAGGAA
ACTTACAATCATGGGGAAGGTGACGGGGGAGCAGGCACATCTGACATAGCA
GGAGCAGCAAGTGAGCAAAGGGGGACGTGCCACACACTTCTAAGTAACCAG
ACCTCATGAGAACTCACTATCATGAGAACAGTACCAGGGGATGGTGCTAG

The following amino acid sequence <SEQ ID NO. 101> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 43:

SYLGPVHSFSQTASHAIPSMKILPFPLSFFSSLIYSPVLVSSFPSSSGQTLFTSLTPS
KIVLITVYPLNTLYRSWPSPDNVLCIFWFTCCVSSFLHCCKEIPETGFIKKRGLIDS

QFCRLYGKHVAGICLASGEDSGNLQSWGRRGSRHIHSRSSKAKGDVPHTSKPDL
MRTHYHENSTRGWC

The following DNA sequence Seq-2630 <SEQ ID NO. 44> was identified in *H. sapiens*:

AGTATAACAATTCAGTCTTTACATCTCTATATTTTGCTTATCTCAAGTATCCA
CTTTGTCTGGTATAGTGTGCTCATTCCACAGTTTTTGGCTGTCCTGGGAACAA
CAATCTAGTGCAACTCCAGCAATGTGAGTTATAGTGCAAATGTCAAACCAGA
GCAGCATCACCATCTAGAGGTCAAAATGATAACTGCAAACCTTCTCACCTTTA
TGAGCCTTCCGTATTCTGTATACATAGCAGTTTATGTGAATGTACAGAAAATA
ATGTTTGCTATTGTTTTCTCTCCAGTTGGGTTTCCAGAAAGAGATCATGGCAT
AAAGCAGGAACACCTGTATTTACAGATGGCATAGGGAAGCATAACATCGCAG
AGCCATATATCAGCAGCACTACAGCATGTTTCAACCAAAGATGAGCCTCCCA
CATGTCAGACAAACCACCTACATTGGGACCACAGCAGTGACAGTGTTTTTTA
GCACATTCCTGATAATGAAATCTATGTTGAACTCAACATGAATGGCTTTTCCT
TTCTCTTGGCAGTCAACAGCCTACACCATTCTGCATTTGACTGTTTAGTTTATT
CTCCCCTCTGGAAAGGCATGACTATGGAAACAGAGTAGAGGATATTTTGGGG
ATTTATGAAACTATTAATATAATTTACTCTCATTGCTGTGCTTTCTACAAA

The following amino acid sequence <SEQ ID NO. 102> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO.44:

YNNLLYISIFCLSQVSTLSGIVCSFHSFWLSWEQQSSATPAMVIVQMSNQSSITIR
SKLQTFSPALFRILYTQFMMYRKCLLLFSLQLGFQKEIMASRNHLYLQMAGSIHR
RAIYQQHYSMFQPKMSLPHVRQTTYIGTTAVTVFFSTFLIMKSMLNSTMAFPFSW
QSTAYTILHLTVFILPSGKALWKQSRGYFGDLNYYNLLSLLCFLQ

The following DNA sequence Seq-2631 <SEQ ID NO. 45> was identified in *H. sapiens*:

TCAGCTTATCTGGTCAATAGCTTTTCGCTCTGTTGCATACCTTGAGCATATGC
ATCAGCTACAATGTTTATAGGTAGCTGTATGGTGTGTTGACACAGCACATGGCG
TACCTTTAAAACAATTATAGCACTGGGATTTGGATCTGAATTTATGTTGCCTT
GTCAAAGTTTCCTCTTTGTAACATGGTAGCCTTTTAAATATTAGGCAGCTACC
TGCAACACTGGGCATTCAGACTAACCCATCAGGCTTATGGCATCTTGCTCTTC
TCGTTCCCTCTCTGTGTGTTGGTACATCATGTTAGGTTTATGCAGTAGACGTA
GATAGGAAGCAAGCCAATTGGCTACAGGGTATTGAAAGTCAATTGCTGAGAA
TGATAAAAGACAAGGATAGCCTTCTCTGCAAAGAAGTGCTAAGAAGATTCTA
AACGTATACAAGGATCTCAAGAGAAACAGTCCCAGATAGCAACACTATTTCAG
TCTTAGACTATGGCTGATACTATACACTTCTCCAGCTCCTCTGCTCCTCAGAG
CAGAAAACAGAAGATTTTGAAATGAGCACCACCCAGCTCCTGAATACAATG
GTACCTTTCATCTATTTCTGGTGACTTTTATTTTCTTTTGTGCTGGATCCCCTA
CATAATTGTAAGCATATCGCAGGCAAGCACAATGGTAAACAGTGGGTGGACG
CTTCCTC

The following amino acid sequence <SEQ ID NO. 103> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 45:

SLSGQLFALLHTLSICISYNVYRLYGVHSTWRTEFKTHALGFGSEFMLPCQSFLFVT
WPFKYAATCNTGHSDPIRLMASCSSRSLVCWYIMLGLCSRREASQLATGYKSI
AENDKRQGPSLQRS AKKILNVYKDLKRNSPRQHYSVLDYGYTLLQLLCSSEQK
TEDFEMSTTPAPEYNGTFHFLFLVTFIFFCCWIPYIIVSISQASTMVNSGWTLP

The following DNA sequence Seq-2632 <SEQ ID NO. 46> was identified in *H. sapiens*:

ATAGAACTTGATTATATTGGTATTTTTATTTCAAATTTTCAATTTTGGAAATGG
CAGAATGTTGCTATTGAAAAGTGTCTTAAAGGTCACCACTGTAACCCCTTCAT
TGTGCTTGAGACCTGCTCAGCTCCTAAATTTAACAGGGGACGGATCTGAGAA
ACTGACTCCAAGTTGTAACCTCTTGCTTAGTTTTCTTTCTAGGGAGATATCCGT

CTCTCCAAACCTGTCGAAATCTAAATTTATTACCTCTTACCTAATACTTGGTCC
CCTGTGGACTTCACTTCACTGTTTGTGCTAATAGCCTTTTCATCACCATCTTGA
CTTTGGATTCTAGAGCATCACCTACTTCCCCATTTTCTGTGACCCTTACATTCC
TCCTGTCAGTCACTATGTCTGATTTATTGTTCTCCCCTATCTTTTGGCCTTTGC
AAATCCTCAAGCCCTCATTCTGGTTCAGACCTTTAAAAGGCTGAGTTACTGGA
GTATAGTGTTACCCAAAGTGAGTTGTTCCATAAAAAAATTAGTAAGTTGGAAA
AAAAAACAAAAACAAAAAATACCCTACCCATAAAGTTGGTAAATGTTTCCT
GTAAAAAGGGTTCCTTGGCCAGGTACATGTTAGAATAGCTGGTTAAGTTTCTT
TGCAGAAAGACTTCTCCTGGCCTTCATTTGTGACTGTG

The following amino acid sequence <SEQ ID NO. 104> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 46:

RTLYWYFYFKFSIFGMAECCYKVSRSPLPLHCADLLSSIQGTDLRNI.QVVTSCILV
FFLGRYPSLQTCRNLNLLPLTYLVPCGLHFTVCANSLEFITLELDSRASPTSPFSVT
LTFLSVTMSDLLFSPIFCPLQILKPSFWFRPLKGVTGVCYPKVVPKISKLEKKT
KTKIPYPSWMFLKGFLGQVHVRIAGVSLQKDFSWPSFVTV

The following DNA sequence Seq-2633 <SEQ ID NO. 47> was identified in *H. sapiens*:

GCAATTAAGTTTTGTACTGTATGGACAGTGTGAAAAACATTATGGAAAAACA
ACTTGAAAGAAAATGTGACAGAATTTCTCCTAACAAATGTCATTGCTTCAACCA
GCTACAAATTTCCAACCTAGTTTCTTTCTTTTGCTGTTTCTTCTTTTGTCTTTGA
TACAATCATACAGCCTCTCTTCCCTGAAGAGATAATAAAAGACTAACAGTTA
AAAGATCTGGAAGACTCATATTCTTTTCTTTTCACTGGCTACGGTTTTGAAA
AGAGGCTGTTGGCTTTTGATTTTTTCTTTTGGGTTCTTTACATCGCCCAATTCA
AACAGGTCTGCTCTCAAAGAAAACAAATCAAATGTCAAGACCTGTGAAGC
ATGAAAAATAAATTGCTTTTTTCCAACCTCAAAAAGCACCAGAAAAGCATTA
TTTTGATCTTTTATAAACCTCTATCCCCTATCCTCTAATCTATAGATTTCACAG

AATGTTTATATATTCTTCTGTATAATACAGGAGATCAAACCTTATTATGAATA
AATTGAATTGAACCTGTAATACAATAATTTAACTAGTGTTATTTTGGAG
TTCAACTAGACACATATAAAACATTTCAAGTGAGATGACACAAATTCCTGGG
GCTGCCAGTATAAAATAAACAGTCCAGTAAGCTGCATCTACCATGCCGTAA
GGGACTCTGTCCTTTTAGCTGGTGGGAGCACAGGCTTCATAA

The following amino acid sequence <SEQ ID NO. 105> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 47:

MKPVLPAPKRTESLNGMVDAAYWTVYFILAAPGICVISLEMFYMCLVELQNNTS
LNISCITGSIQFIHNKVSPVLYRRIYKHSVKSIDRIGDRGLKIKINAFVLFGVGKSN
LFFMLHRSQFFVFFESRPVIGRCKEPKRKNQKPTASFQNRSQKRKEYESSRSFNCS
FISSRKRGCMIVSKTKEETAKERNVGNLLVEAMTLLGEILSHFLSSCFSIMFFTLIS
QYKTL

The following DNA sequence Seq-2634 <SEQ ID NO. 48> was identified in *H. sapiens*:

TCCTGAGAAGACCTGCAGCACAGGGTAAAATATGCAAGGGAGGGCCATATA
ACTTTTATCTTTACTTAATTTATTTAATTTACTAATTTTAAAGTATTAACCTAT
TTTGTTTTTATTAAATCTCTGTGGTTGCACAGAATTCAAATTGCAGCAAAAAT
CATTCAGGGCTAAACACTGGAAAAATCTCTTAATTCTAAGGTACATGACACA
ATGGACTCAAAAACAGTTGCTGAGTCCCTTTCAGTGGAGAAATTTAAAGAAA
GGGTATAGAAAAGTTTTGACCAATTCCACCCAATCCTGCATCCCCAATTCCAA
TCTCAAGGACCAGTTTCCATCTGATCTCTCTCCACCTACAGATGGTGGTCCTG
AATCTCCAAATCAACAAACCAAAAATGAATCCATCATCTTCTCACACCTGG
TTTTTCCTTCCAACCTCCCTCATTTCTGTGACCTGCCCCATAACCTTACCAGGAA
TCCAGCCCCCAAAGCAGGGTGGACTCCTCCCTCTGCAATGGACACCAGGGAT
TCAGGTCCTGTTGCTGGCTCCAAAATGCCACAATGCCCTGTTCTCCCAAATC
AGCACATTCAACAGT

The following amino acid sequence <SEQ ID NO. 106> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 48:

SEDLQHRVKYAREGHITFIFTFILIYFLSINLFCFYISVVAQNSNCSKNHSGLNTGKI
SFGTHNGLKNSCVPFTGEIRKGIEKFPIPPNPASPIPISRTSFHLISLHLQMVVLNLQI
NKPKTESIIFSHLVFPSNSLISVTCPITLPGIQPPKQGGLLPLQWTPGIQVLLLAPKC
PQCPVLPNQHIQQ

The following DNA sequence Seq-2635 <SEQ ID NO. 49> was identified in *H. sapiens*:

TTTGACTTAACCCTTTGTAGCCCAGGTAATAAATCCAAACTCAGCAAGTATGG
GCTGGACCCCAGTAGCTCTGTGGTTGCCACTTTTTGGCCCATATTGAACCGAC
GTCCCCTTGGCATCTACCAGGGACTCCTCAGGGAGAGTGTGGGAATGATGGG
GGAAGACTCGTCACTCTTTTGTAGAGCGTGGGGCAGATGATAGCAGAGACCT
TCCAGGGCCCAGGGCTGGGGTCTTGTCTTCCTTGGATGTGGTCTAGCGTTGCT
CCAGATGGTGGGTTTGTGGCAGGTGGGGCAGAAGCAGATGATGCAGTTGAGG
CGGGTCTCTGGTAGAGAGTGATGTCAAAGATGAGCACTCCTTTTATCCCCTGA
CTCTTCTGAGGATGGCTGCCTCCTTGGTGAGCCACTTGGAGGTCTCAGGCCGA
TCATGCGGGATGGTGGCCCAGATGAGGAAGGGGATCCAAGGCGGTGGCCTTC
CCAGATGCACTGGGCCCCAGCCCTTCTTCCTAGCTTCGGCTGATTACTGTGGG
CTTCAGCAACCAGGGCCTACCTGTAGGTCTCCACATTTGTAAGCACACAGA
ACCCAGTGCATCTTTGTGCACTCAAATCGCCCTTGATCCAGGGGTATTTTCTC
ATTCAGAACACACTTTGAAAGGCGGCCATTCCCCTTCTGGAGAAAGCCTGGA
GAATCTACAGTGCCCTTAATTACAGTG

The following amino acid sequence <SEQ ID NO. 107> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 49:

HCNGHCRFSRLSPEGEWPPFKVCSEENTPGSRAIVHKDALGSVVLTNVETYRAL
VAEAHSNQPKLGRRAGAQCIEWEGHRLGSPSSSGPPSRMIGLRPPSGSPRRQPSSEE
SGDKRSAHLHHSLPETRLNCIICFCPTCHKPTIWSNARPHPRKTRPQPWALEGLCY
HLPHALQKSDESSPIIPTLSLRSPWMPRGRRFNMGQKVATTELLGSSPYLLSLDLL
PGLQRVKS

The following DNA sequence Seq-2636 <SEQ ID NO. 50> was identified in *H. sapiens*:

AGATGCCCAGACACCTTCACTTCAGCAGACAAGGGGCAGAGTCCTGGAAAAT
CTAGGCAGGGAAGACTTGCGCCTCTAAGAGTAAAAGGCCTCCCAGAGAGGA
CATGGATGAAAGGAGGACCACCTTCCAATGCCACTCTCCAAAGCAGGAAACA
TCCAAATAAAGGATGTTGATTTTCAGGACCCCATCCCTTCATGAGTGCTTACA
CAACTGGTATATCCTCTCCCGTCTCTTCCTCTGGTAGCCAAGACCTTATACCA
GTTTGAGTATCCTTTATCCAAAATGCTTGGGGTCAGAAGTGTTTTGAATTTCA
GATATTTTTTAAATTTTGGAATATTTATATCATACCTCTTGGTTGAACCTTCCAG
ATACAAAAATCTGGAGTCCAGTGAGTATTTCTTTGAGTGTCATGTCAGTGCT
CAAAAAGTTTTAGATTTTGGAGCGTTTCAGATTTTCAGGTTTTTGAAATTGGAA
TACTCAACCTGTACTCTCTGTCCTTGTCTACCTCTACCAGACCCTCCCCCACA
GGAATGAATTTAGATCTGAAAA

The following amino acid sequence <SEQ ID NO. 108> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO. 50:

FRSKFIPVGEGLVEVEQGQRVQVEYSNFKNLKSETLQNLKLFHHDTQRKYSLDS
RFLYLEGSTKRYDINIPKFKNINSKHFPQAFWIKDTQTGIRSWLPEEETGEDIPVVA
LMKGWGPENQHPLFGCFLLWRVALEGGPPFIHVLSGRPFTLRGASLPCLDFPGLC
PLSAEVKVSGH

The following DNA sequence Seq-2637 SEQ ID NO. 51> was identified in *H. sapiens*:

TCATCCTCCGCTGTCTATTTTGAGCTGTGAGTTTATCCACAAAGGAACAGAGC
TGAAATGAAACAATTTTACCACAGTAACTTGTTAATCGGGCATCCTTTAAGTA
TGCTGGATTTAACACTGGAAGTTCTTTTGAAGACTCTGAAAGTTTTCTTTAAT
CGTCATGAGATTTTTCCAACTAAGTTCATGATATGGATTTTTTTTCACTGTATC
TAGCTTAAGTCACATTTCAATTCAAATCTAAACCTAAACTGATGGAGCTGGA
GCTAGTGACTTCAGGCAATTGGCATCTTTTCGCTGAATACAAACATCCTATTT
AAAAGACCAAACACATGACTCCATTCAAAAATTAACAGTCATGTGTAGTG
AAACAGCAAGAACACGGTCTGAGAAACGTGTCCTTGACACACAGCGTGAAT
GCACTCACGCAAGCCTAGACGGTGCGGC'GCCGCACACCAGGCCCTGTGGTA
CAGCCTGTCAATTCCAGGCCCAAGCCTGCATACCATGTTGCTGTGCGGGAC
GCTGCCGGCGGCTGTAGCACAATGCTAAGTATCTGTGTATCTCAACACAGAA
GAGGTAGAGTAAAGTACAGTATTATGATCGTACGGGACGCGTGTTGTACACA
CAGTCTATCATTGATGGAAGCATCGTTATATGGCACATTACTGCACTGTAAAA
AGACACCAAACCTTCGGCCGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTT
TGGGAGGCTGAG

The following amino acid sequence <SEQ ID NO. 109> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 51:

SASQSAGITGMSHCAGRSLVSFYSAVMCHITMLPSMIDCVYNTRPVRSYCTLLYL
FCVEIHRYLALCYSRRQRPAQQHGMQAWGLELTGCTTGPGVRQPHRLGLRECIH
AVCARTRFSDRVLAVSLHMTVLIFEWSHVFGLLNRMFVFSEKMPIASHLQLHQF
RFRFELKCDLSIQKKSISTFGKISRLKKTFRVFKRTSSVKSSILKGCPINKLLWNCFI
SALFLCGTHSSKTAED

The following DNA sequence Seq-2639 <SEQ ID NO. 52> was identified in *H. sapiens*:

TTCTTCCTTTTCCTTTTCATTATCATTTTCTTTTGTCTCAAATAATGAAAAAT

GCATAAGGGTCTGTAGAGAGAAGAAAATGTCCTTGCCCATGAACTTCTTGCA
GGTATTTATCTTGCTTCTTTATCTTACTAAAAATAGAATTGAAAGTTTTTCATT
TTTTGTTTTTCAATTTTAGAGGATACAATGGAGATTCAGGAACGAATAGAAA
ATAGTTTTAAGTCTTTACTAGACCAGTTAAAAGGTAAGTTTTCTTACTGTAGA
TTCCTGTATTTGTATCTGGTTGTATGGCAATAGCTTCGAAGTTCTTTCCCCTAT
TCCCAAGCCCAATCACCCAGAGATAAGTAAGTAGTTTTAACACTTTGGAGTC
AATACTCCTAGATGCCACCTAAACACATATGTGTGTGAATGAAAATACAGAT
AAAAAGTAATCTTTAAACATAGGAAATGGTGTAATCCATGCTTTTTTGACTTT
AATTTTTTTGTTATTTTGGATACCTTTCCATGTCAGTTATATATACCCCATTTA
TTTTCAAGACTGCGTAATATTCTATAGTATTGTATTAACATTTTTTATGTTATC
GCAATTGGTGACATATTATGTATATGAGTTATTTCTTCTACTGATGCTGAAAT
GAATATCTTGGGACAAATTGTTAGGGGTATTATTTGAGTCCTTCCTTGGGATT
AAATT

The following amino acid sequence <SEQ ID NO. 110> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 52:

FFLFLSLSFSFCLKIMKNAGSVERRKCPCTSCRYLSCFFILLKIELKVFHFLFFNFR
GYNGDSGTNRKFVTRPVKRVFLIPVFSVSGMAIASKFFPLFPSPITQRVSSFNTL
ESILLDATTHMCVNENTDKKSLNIGNGVIHAFLTLIFLLFWIPFHVSYIYPIYFQDC
VIFYSIVLTFFMLSQLVITYYVYELFLLLMLKISWDKLLGVLFESFLGIK

The following DNA sequence Seq-2640 <SEQ ID NO. 53> was identified in *H. sapiens*:

CTTTTGAGGATTAAAAATTCCTGCTTACTGTCGTTATAACACGGGGATTAATA
AGCACCTTACTGGAATCTCTCACCTACCATAATTTTAGTATGCTATGTGAGGG
AATGAACAGTCTCACACATTTAATAATGACTACTCATATAATGCTTTTAATTG
GTAATGACCTATATGAAACATGATATAGAAAACACATTACAGCTTCTCAAAT
GACCCCTATAAGTTAACCAATTGCTTAGGTTTCTGACAAATTTGAATCTGGCC

CCATGCACCTTTGCTGGGCCCCACAAAACAAGGAGGTAGATTATTTATGAAG
GTCAACCACTCTGGCAATATCACCATTAAATATCAAGCTCATCTGCCCCATAG
CTCCTCCATCTTCAGGTCCAGGACTCTGGATTGGAATGACCTACCTCCACATT
CAGTTCTGTAAGTCATTAGGCATCATCCAAGATGGTAGATGATGAATAAATG
GACAATGACTTAAGCTTTTTTTACTCTCTCATCCATTCCAATGCTTTCTTCCCT
GGTCTTTGCTCATTATTTCCATGTTATTTAATATATATTTGGAAGAATTCATGG
CAGTGATAACAATAATGGCTACAATTTTTTATTACCTATGTATGCCAGGCATT
GTGCTAAGTGCTTCAGGTATAAGATCTTGTAAGGGATTGGTTACATTTTACAG
ATGGTAAGACTGGGATTCAGATGTTAGTTGCCTGTTTAAGTCAATAA

The following amino acid sequence <SEQ ID NO. 111> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 53:

FEDKFLLTVVITRGLISTLLESITYHNFSMLCEGMNSLTHLIMTTHIMLLIGNDL
ETYRKHITASQMTPIPIAVSDKFESGPMHLCWAPQNKEVDYLRSTTLAISPLNIK
LICPIAPPSSGPGLWIGMTYLHIQFCKSLGIIQDGRINGQLKLFLLSHPFQCFLPWSL
LIISMLFNIYLEEFMAVITIMATIFYYLCPGIVLSASGIRSCKGLVTFYRWDWDS
DVSCLFKSI

The following DNA sequence Seq-2641 <SEQ ID NO. 54> was identified in *H. sapiens*:

CTCTTCTCCCTAGGTGGTTTGCTGGCAATCTTTGGCATTCTTAGCTTGTGGAA
GTATCACTCCATCTCTGTCCTGATTCTACATGGTGTTCTTCCTGTGTGCATGT
CTGTCTCCAAATTTCCCCATTTTATAAGGACACAGTCATACTGGATTCGGGCT
CATTCTAAAGACCTCATTTAATTTAATTCCATAAAGACCCTATCTCCAAATAA
TGTCACATTCTGTGGTACTGGGGGTATGACTTAAACATATAAATTTTAGGGA
GACAAATTTGAACCTCTAACAGTACTGAACATCCAGGATGGAAGAACATGGT
ATTAGGTTGAGCCAAACACAGTTGCTTACGTTTTGGTTTTCTCACCAGGACA
AGAAACCCCCAGTGCAGGAAAATTGGAGACATGGAAAACAGGGCTTAAGTA

AACA

The following amino acid sequence <SEQ ID NO. 112> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 54:

SSPVVCWQSLAFLSLWKYHSISVLISTWCSSCVHVCLQISPFYKDTVILDSGSFRP
HLIFHKDPISKCHILWYWGLLKHINFRETNLNLQYTSRMEEHGIRLSQTQLLTFWF
SSPGQETPSAGKLETWKTGLKT

The following DNA sequence Seq-2642 <SEQ ID NO. 55> was identified in *H. sapiens*:

TTATTATACTCAACACTGCTAGGAAAGAATCAGTGATGTTGAAGATATATAT
ATATATATTTGCTTGTGTATTTGTGTGTGAGAGACACACATAGAAAAAAGA
GAGAGAGAAATATATTGGTTGACACTGGCTTCTTTGAAAAAAGGCAGTTTAG
TAACAATGGCCTTTACTAGACAGACATGTTAGAAGGCAGCAGGAGAAAGGG
AATGTGGTATCAGATATTTTCTGTAAAAGGTTTGTATTAAATTCATGTGGC
AAATTGTAGCTGATGTCAAAGTAGTTATAAAGCAAGGGGAACACAATTCTTT
TACAGCAATGTTGAGGTCTAAGAAACATAAAACAAATACCTGGTAAGTACCA
TGCATATATACATACATAAACAATCAATAACTCACAAAACATTCACATATTTG
CAACACTGCTTTTCAGTTTATGCAGTTTATTTTTTGTTCTTTTTAAGCTTTTTAT
TATAGTGAATGTCTTATATTTCATTAAGTTTGTATATTATATGTGAAACAA
CAGTTCTGATAAAGCAATATCTAGATAAAGGCTATTACTTACCTTTCTCAAAT
TGATAGATTTTCTCCTTGTAACAAGCTCTGATATAAAATATGATAATTTGTTG
AAAACCTTTTACACATTCAAACTAAATTATCATATATTTAATGAGACTTTGGG
TGTGTATGTGTGAGTGTGTGTCTGTGTGT

The following amino acid sequence <SEQ ID NO. 113> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 55:

IITDTHSHIHTQSLIKYMIIFMCKSFQQIIFYIRACYKEKIYQFEKGKPLSRYCFIRT
VVSHIISKLLMKYKTFTTIKSLKRTKNKLHLKSSVANMMFCELLIVYVCIYAWY
LPGICFMFLRPQHCCCKRIVFPLL NYNYFDISYNLPHEYQTFYRKYLIPHSLSPA AFHV
CLVKAIVTKLPFFKEASVNQYISLSLFFYVCLSHTNTQANIYIYIFNITDSFLAVLSII

The following DNA sequence Seq-2643 <SEQ ID NO. 56> was identified in *H. sapiens*:

AAAACCTGGTTTTTTTAAAGCAAACACAGAAACAATGTAATATAGGTCTTATT
ACATATGTAGGAAATAAAAATAATATGTATGACGACAACAGTAGTCTAAAAT
TCAGGAGACAGAGAATGGAAGTACATTGTTGCAAGGTTTTCTAATACACATG
TACAAAGTGGTATAATGTTACTTGAAAGATAACTGTGATAAGTTAAAGACGT
AATCAATGACACTATATCAACCACTAAAATAATACAACAAAGGATATACGAA
ATATTTTTTAAAAGTATAATTAACCCAAAAGAAAGCATAGAGGAAAAAGGGA
ACAAAGAATAATAGATGGAATAAACAGAAAAAACTAGCCAGCTGGTAAATT
TAAAACCGATCATATACATATTCACATTAATAACAAAAAGTTTAAACACTTC
AAAGTCAAGTCAGAGGTGTCATATTGGATAAAAAGAAAGACTCAACTATATG
TTACCTATAAGGAATGCACTTTAAATATACAAACATATTTAAAATAAAAAGAT
GAAAAGTTATATACAATGTTAATACTCATCAAAATAAAGCTAATGAGGCTAT
ATTCATATTAAAAAGTAGGTTTTTAAAGCAAAGATTAC

The following amino acid sequence <SEQ ID NO. 114> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 56:

SLLNLLFNMNIASLALFVLTLYITFHLFILICLYISAFIGNILSLSFYPIHLLDFEVFK
LFVFNVMYIMIGFKFTSWLVFSVYSIYSLFPFSSMLSFGLIILLKIFRISFVVLFW
LICHRLRLITVIFQVTLYHFVHVYKTLQQCTSILCLLNFRLLLSSYILFLFPTYVIRPI
LHCFVCVCFKKPSF

The following DNA sequence Seq-2644 <SEQ ID NO. 57> was identified in *H. sapiens*:

TCAAGTCCATGCTTTTACGGAAAGACCCCAGTTCCTGCCTCTTCTATATATTT
ATCTACCTTGTGGTGAAGAGCATGTGTGTGCAACACCTTTGCCTGAAATGGTA
TGGTTTGGCATTAAATGAATTGTGGGTCCATTGAAAAGAAATCTCCTCTTGTTT
CTCGTGTTATGGACAGTTCAAGGTTTGCCTTAGAACTAACTTCAAGGAAAAGT
AGCAGAATCGTAGGAAGGGACAATCTTGCCTTCAGTCCCACCCTCTGTTCCG
GGCAGGTCTGGGTGGCTATCTTCTTTCGGGGGCTTTTCCTTGCAGAAGAACTT
CTTCAGCATGTCCTGGATTTCTTCTTAATGGTCTTGTGCATGTAGCCATAGA
CATAGGGGTGGATGCAGCACTGCAGGAAGAAAAGCCAGATGATTATGGTGA
TCACCCACTGGGGTACCTGGGTTTCGACATCCACCCACACGGCCAGGACTGC
TAAAAAGCAGTAGGGCCCCAGGGATAGCACATAGGAGAAAATGATGATGAA
GATCACTTTAGCAGCTTTGCACTGGTAGCACCTGGGCAGAGGAGGGTTGCTG
TTGCTGTTACGACGACTGGGTGGGAGGCTCTCCGGGATGTTCACTGCCTCGAC
GTCATCCTCACTGAAATTGATGTCGTCTTCACCAAACCTCCATGTCATCTTCAC
CCAAGTCAATGCTGCACTGGTTGACCTCTGTGCGACCCTTGTCTGCCTTCATG
CTGTTCTCCTC

The following amino acid sequence <SEQ ID NO. 115> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 57:

EENSMKADKGRTEVNQCSIDLGEDDMEFGEDDINFSEDDVEAVNIPESLPPSRRN
SNSNPPLPRCYQCKAAKVFIIIFS~~YVLSLGPYCFLAVLAV~~WVDVETQVPQWVITII
~~IWLFFLQCCIHPYV~~YGYMHKTIKKEIQDMLKKFFCKEKPPKEDSHPDLPGTEGGT
EGKIVPSYDSATFPSFGKPTVHNTRNKRRFLFNGPTIHCQTIPFQAKVLH~~THALHH~~
KVDKYIEEAGTGVPKHGL

The following DNA sequence Seq-2645 <SEQ ID NO. 58> was identified in *H. sapiens*:

AGTGGAAGACCACACCTAGGAACCGACTCTAGCTCTTACCACCCTGTAAGC

CTGAGGCTCAGTTGCTGTCCCTGGAGAACAGAAAACATAATCATGGCTATTC
TGAGGGTCAGGGGCAAGTGCTTTGCAAGTGGGATTGTGGTGGGCAGTGGGAG
GGATTCTGGGGTTCACTGTCATGCTAGTTGTGTAAGTGGGCAATGCAACCGTG
TAAGTGTCAGGAAACCTCAATAAGACTGAGCCAGAGGCCAATAAGAAGCC
AGCATTTACATGATGTTCTTTTCCTTTTTGTAAGTAGGAAATTCGATTTGCAC
ACTGATTTGGCCCACCATTCCTGGAGAGATCTCGTGGGATGTCTCTTTTGTTA
CTTTGAACTTCTTGGTGCCAGGACTGGTCATTGTGATCAGTTACTCCAAAATT
TTACAGGTATGTTTTCTGCAAGTGCTGCCACTGAACTTCACCCAGGCTTGGGG
TTATTTCTGCTAGAATCTTAGAATTTGGGGTCGGAGAACACCTAAGAGTTCAC
GCCAGCTCAATCTTGATTCACTGCCAGGTCTACAACACTGAGGAAGGAGAG
GATTTTTTTAGAAAGTTATATCTTTGTGATTATGTTTTTTGCTCATCACTAAAGT
AATACT

The following amino acid sequence <SEQ ID NO. 116> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 58:

SGKTTPRNRLLLPPCKPEAQLLSLENRKHNHGYSEGQGQVLCKWDCGGQWEGF
WGSLSCLCNWAMQPCKCQETLNKTEPEANKKPAFTCSFPFCNEISICTLIWPTIPG
EISWDVSVFVTLNFLVPGLVIVISYSKILQVCFLQVLPLNFTQAWGYFCNLRIWGRR
TPKSSRQLNLDLPRSTTLRKERIFLEVISLLCFLITKVI